

Catalog 214
2001

Original cover was not preserved

Part Number Color Code Legend
NEW | SALE | REFURBISHED | CLOSEOUT

Environmentally Safe

Workshop Products





See Pages 106 - 112 for Tools and Accessories

Portable O'Scope

Handheld 20 MHz 2-Channel Oscilloscope



Model 460 $895.95
195231

- Bandwidth: 20 MHz
- 2 channels
- RS-232: optically isolated output
- Sampling rate: 25 MS/s
- Waveform: vertical 8 divisions of 20 pixels
- 4,000 count autoranging DMM
- Backlight
- 3" x 3" LCD screen
- Meets Cat 111 600V
- Handheld
- Adjustable contrast
- Three year warranty

Handheld Instruments on Pages 119 - 123

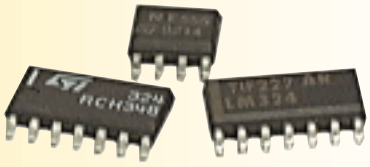
Includes: AC charger, 2 banana to BNC adapters, 0-60 MHz oscilloscope probe, high performance test leads and manual

New Surface Mount Products!

We just introduced a line of Surface Mount Integrated Circuits and Surface Mount Capacitors to support volume production.



See Pages 23 - 25 for Capacitors



ICs on Pages 6 - 15

Collect Data Remotely



$63.95
194061

See Page 147 for Additional Data Loggers

H8 Data Logger

Temperature/RelativeHumidity/ Light Intensity/External Input

- User selectable sampling intervals 0.5 sec. to 9 hours, recording time to one year
- Capacity: 7943 measurements
- Operating ranges: -4°F to +158°F (temperature), 0 to 95% relative humidity (non-condensing, non-fogging), 2 to 6000 footcandles light intensity (lumens/ft²), 0 to 2.5VDC external input

onset computer corporation



Other Sensors on Page 49

External Sensor

- Range: -40°F to +212°F in air
- Accuracy: ±0.9°F @ 70°F
- Resolution: 0.7°F @ 70°F
- Response time in still air: 4.5 minutes typical

$22.95
194175

Snap Into Action



Honeywell

Snap Action Switch

$1.95
191388

More Switches on Pages 37 - 41

- Electrical life @ full rated load: 1,000,000 cycles
- Contact Form: SPDT
- Contact rating: 10A@250VAC
- Actuator type: pin plunger
- Mechanical life: 10,000,000 cycles
- 0.22" solder terminal

Weller®

$41.75
192102



35 Watt Soldering Iron

- 120VAC @ 60Hz
- Interchangeable heater elements
- Lightweight handle with cushioned grip
- Quick change knurled collar

Includes: 3-conductor power cord

See Pages 113 - 117 for More Soldering Equipment

ISA 12-Bit Analog Input and Digital I/O Board

See Pages 144 - 146 for More Industrial Products

$147.95
193906



- 8 channel A/D
- 12-bit input resolution with input range of ±5V
- Digital input/output: 16-bits TTL, 8 in/8 out
- 20KHz max. sampling rate

Includes: InstaCal, installation, calibration and test software

See Pages 76 - 78 for an Extensive Line of Mean Well Power Supplies

Outstanding Product from a Quality Manufacturer

MEAN WELL

200-Watt Single-Output Switching Power Supply



$79.95
194773

With PFC – Power Factor Correction

- Output 12VDC @ 16.7A
- Input voltage: 85-264VAC @ 47-63Hz; 120-370VDC
- Line regulation: ±5%
- Ripple and noise: 100mV – 150mV peak-to-peak
- DC voltage adjustment: CH1: +10%, -5%
- Soft-start circuit, limiting AC surge current
- UL/CUL/TUV/CB/CE approved

Mean Well is an ISO-9001 Certified Company

Get a Head Start on Your Holiday Shopping

Christmas Tree Kit

This electronic X-mas tree contains two astable flashing circuits

Velleman

$12.95
147635

- Power: 9VDC battery
- Minimum consumption: 4mA
- PCB dimensions: 2.4"L x 4.0"W
- Weight: 0.1 lbs.

See Pages 167 - 177 for Our Complete Selection of Kits



* See detailed Product Index on pages 183-185

QUICK INDEX*

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PRICES

Prices are effective as of 10-8-01 and expire 1-19-02.
Prices & discounts are subject to change without notice.

Part Number Color Code Legend
NEW | SALE | REFURBISHED | CLOSEOUT

Make Your Video Camera Wireless up to 495 Feet!

See Pages 163 - 166 for Camera Equipment and Accessories

4-Channel 2.4GHz Wireless Audio/Video Receiver and 10mW Transmitter



$89.95
192858

Transmitter:
- Transmission range: 495' (150M) outdoors; 198' (50M) indoors
- Output impedance: 50Ω typical
- Video input: 1Vp-p composite
- Audio input: 2Vp-p max.



$124.95
192866

Receiver:
- Mute and alarm trigger port
- Built-in OSD time generator – date/time/channel
- Video loss detection and freeze channel
- Non-volatile memory protects system set-up from power loss

Power in the Palm of Your Hand

8-Function Digital Multimeter

Wavetek Meterman

$69.95
192612



- 8 functions/26 ranges
- 3200 count
- Large digital and analog bargraph display
- Long 1000-hour battery life with auto-off for power saving
- DC voltage ranges: 320mV – 600V
- AC voltage ranges: 32mV – 600V
- DC current ranges: 320µA – 10A
- AC current ranges: 320mA – 10A
- Resistance: 320Ω – 32MΩ
- Capacitance ranges: 32µF – 32mF
- Diode test and continuity beeper
- Data hold

More Handheld Instruments See Pages 119 - 123

Ideal Stocking Stuffer

In-Ear Stereo Headphones

- Typical application: CD player
- 3.5mm input jack connector
- Color: gray
- 4' long

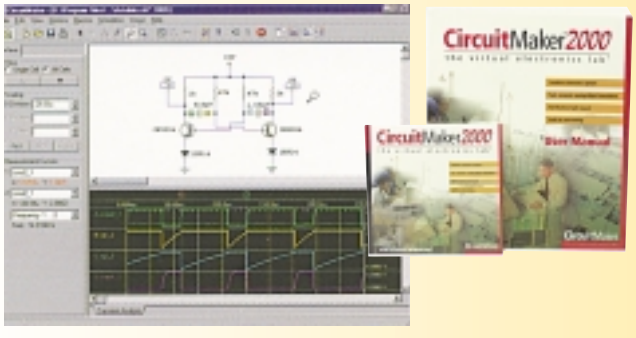


$2.95
191880

More Audio and Video Products on Page 158

Low-priced, Design, Layout & Simulation Package

Altium



CircuitMaker 2000 Design Automation Software

CircuitMaker 2000 is your virtual electronics design lab. Exceptional ease of use and tight integration means spending less time in learning the software and more time in designing.

- Professional schematic design capabilities
- PCB layout
- Simulation and analysis

$299.95
191581

See Page 99 for Design Automation Software

Get Protected

8-Outlet Surge Protector

IBM

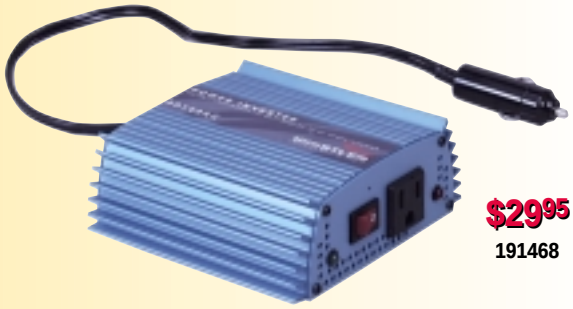


$59.95
191935

Complete Line of Power Protection Products See Pages 159 - 161

- UL1449 Transient voltage: 330V
- 3-line protection
- Electrical rating: 125VAC @ 60Hz
- Maximum surge voltage: 6000V
- Clamping voltage: 270V
- 4 standard/4 transformer outlets

Power Your Video Equipment at Tailgate Parties



$29.95
191468

140 Watt Power Inverter

- Built-in protection: surge, over/under voltage, short, overload and thermal
- Max. continuous power: 140W
- LED status indicators
- Input connector: cigarette lighter plug
- Output connector: 3-prong AC receptacle
- Input voltage: 12VDC
- Rocker type on/off switch
- Modified sine waveform
- No load current draw: <0.1A
- 30A spade type fuse

See Pages 71 - 79 for Power Supplies

Extend Your USB Cables

USB Active Extender Cable

See Pages 142 - 143 for USB Products

$29.95
191441



- Extends the distance between USB devices by up to 16'
- Complies with USB electrical and timing specifications
- Compatible with high and low speed USB devices
- Interface: USB-A male to USB-A female

Expand Your USB Network



$49.95
191450

External USB 7-Port Hub

- 7 USB-A female output ports
- USB-B female root port
- Plug & play compatible
- Allows you to attach 127 USB devices to your PC
- LED indicators for port, status, and power

Networking Equipment: See Pages 152 & 162

PC Expansion Cards



$149.95
191513

PCI Ultra2 SCSI Controller Card

More PC Cards on Pages 139 - 141

- AIC-7890AB Chipset
- Windows® 95/NT, NetWare, OS/2 compatible
- Plug & Play design
- Internal and external Ultra2 SCSI 68-pin connectors
- Supports up to 15 SCSI peripherals

Affordable Multimedia Products

QuickCam VC

QuickCam lets you send video images and photos over the internet as easily as you now send text.



See Pages 163 - 166 for Multimedia Products

- Focus range: 1" to infinity
- 3.6mm lens with F2.0
- 46° field of view
- 24-bit color

$39.95
191759

Convenience. Great

Contact Information

Order Desk - 24/7, 365 Days a Year

Phone: 1-800-831-4242
Fax: 1-800-237-6948
sales@jameco.com

Website

www.jameco.com

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Fax: 1-650-592-2503
international@jameco.com

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- **Mexico:** 001-800-593-1449
- **Indonesia:** 1-803-015-237-6948
- **Brazil:** 000-817-455-6119
- **New Zealand:** 080-044-0470

Technical Support

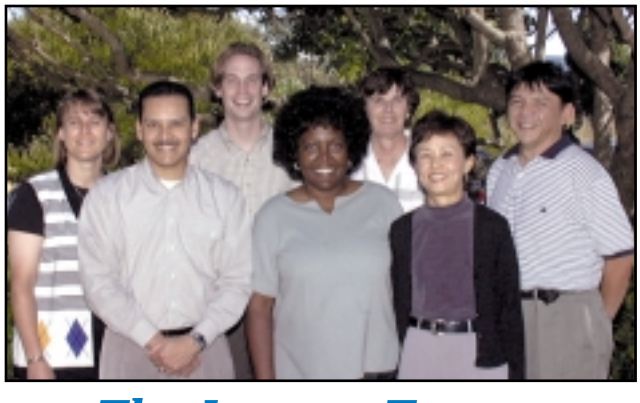
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tech@jameco.com

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Phone: 1-800-831-4242
custservice@jameco.com

Credit Department

Phone: 1-650-592-8097
credit@jameco.com



The Jameco Team...

"As representatives of Jameco we stand ready to serve your needs. Put us to the test. We're looking forward to serving you soon."

An Easier-To-Use-Catalog...

Jameco's merchandising team has set a goal of making our catalog easier for you to use. The multi-colored product legend ensures that you can spot unique items much easier than ever before. To accomplish this, our part numbers are now displayed in three distinctive colors.

New Products

Part numbers in red identify the nearly 400 new items added to this catalog.

NEW Part No.	Product No.
182991	RMH08LP

Refurbished/Out-of-Production Products

Part No.	Product No.
25101	MC146818

A green part number identifies refurbished products. Once products are phased out of production, most distributors stop stocking them. Jameco supports your needs by buying refurbished products and delivering them to you at value prices.

Closeout Specials

Part No.	Product No.
155643	DC603F1

A blue part number indicates products that are being phased out due to lack of supply. This gives you an opportunity for one last buy at a reduced price.

Sale Products

A yellow highlighted priceline identifies sale items. Sale items can also be spotted by the distinctive starbursts throughout the catalog. Most of these items provide 20% to 60% saving opportunities on OEM quantity buys.

SALE

Part No.	Product No.	Pins	Description	1	10
44222	7400	14	Quad 2-input NAND gate	$.49	$.39
63538	7402	14	Quad 2-input NOR gate	.19	.14
44231	7404	14	Hex inverter (CD4069)	.39	.35

The Color Code Legend ...

For easy reference we have included this color code legend on each and every page.

Part Number Color Code Legend

NEW | SALE | REFURBISHED | CLOSEOUT

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Huge Savings...

Jameco is working hard to identify the best sources of high-quality electronic products at the lowest prices possible. This in turn gives us the ability to deliver the products you need at substantial savings. If this is not enough, we back our low-price commitment by matching any advertised price on like product.

Our bullish purchasing sometimes creates an overstock situation. Fortunately for you, this creates a great saving opportunity for you to take advantage of savings up to 60% on many product types including semiconductors, power supplies, fans, tools and computer products. These items can be easily spotted by their yellow highlight. OEM quantity prices are offered at 20 to 60% savings.

In this catalog you will find huge savings on over 900 products.

The Jameco Advantage...



Low-price Commitment

We'll match the advertised price of any like product. It's that simple.

30-day Money-back Guarantee



If for some reason you're not satisfied, just let us know. We'll help you find the right product, and give you an RMA number to track your return. See page 182 for details.



Same Day Shipping

99% of orders placed by 6 PM EST are shipped the same day.

Around-the-clock Ordering



You can call us at 1 (800) 831-4242 24x7x365 to place your order. Or visit us on the web at http://www.jameco.com.

New Product Offerings...

We're constantly expanding our broad product line of new and out-of-production items. Be sure to check out these great new offerings now!

Surface Mount Devices



We added over 100 capacitors on page 22 and linear ICs on pages 9 & 10.



Items can be quickly spotted with the distinctive red diamond.

Cleaning Chemicals

Clean your work with 34 new electronic cleaning chemicals from Techspray and Caig on page 118.



TECHSPRAY CAIG



Data Acquisition

Remotely record data with 20 new Onset products on page 147.

onset computer corporation



Wavetek Meterman Multimeters

Powerful yet affordable multimeters can be found on page 123.



WAVETEK® Meterman™



DIN Rail Power Supplies

We've added Mean Well power supplies at unbeatable prices on page 75.



New Product Ideas...

Our new product team is constantly looking for new ways to improve our product line. This edition of the catalog features **over 400 new products**, and the team is already working on new products for the next edition. If you'd like us to add a particular part or product line, be sure to e-mail your recommendation to products@jameco.com.

We can special order any ICs – 100 piece minimum

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

Call for pricing on quantities over 500 – we carry major manufacturers.

IC Test Clip Series

- For temporary connections to DIP package components
- Heavy-duty spring loaded hinge provides positive contact
- 20 AWG insulated gold contacts • Color: white


22103

Part No.	Product No.	Description	1	10	25
22103	JTC16	16-pin (for 8, 14 and 16-pin ICs)	$4.95	$4.49	$3.95
22120	JTC20	20-pin (for 18 and 20-pin ICs)	6.95	6.25	5.59
22162	JTC28	28-pin	8.95	7.95	6.49
22189	JTC40	40-pin	9.95	8.95	7.95

7400 Series

Dual-In-Line Package



Part No.	Product No.	Pins	Description	1	10	100
48979	7400	14	Quad 2-input NAND gate	$.59	$.49	$.45
49007	7401	14	Quad 2-input NAND gate (O.C.)	.49	.45	.39
49015	7402	14	Quad 2-input NOR gate	.59	.49	.45
49040	7404	14	Hex inverter	.59	.49	.45
49074	7405	14	Hex inverter (O.C.)	.29	.25	.22
49091	7406	14	Hex inverter buffer/driver (O.C.)	.45	.39	.35
49120	7407	14	Hex buffer/driver (O.C.)	.59	.49	.45
49146	7408	14	Quad 2-input AND gate	.59	.49	.45
49189	7410	14	Triple 3-input NAND gate	.25	.22	.15
49269	7411	14	Triple 3-input AND gate	3.95	3.59	3.25
49402	7413	14	Dual 4-input NAND gate Schmitt trigger	.29	.25	.19
49437	7414	14	Hex inverter Schmitt trigger	.59	.49	.45
49630	7416	14	Hex inverter buffer/driver (O.C.)	.25	.19	.10
49728	7417	14	Hex buffer/driver (O.C. hi-voltage)	.79	.69	.59
50008	7420	14	Dual 4-input NAND gate	.49	.45	.39
50024	7421	14	Dual 4-input AND gate	2.95	2.75	2.49
50083	7425	14	Dual 4-input NOR gate with strobe	.89	.79	.69
50139	7427	14	Triple 3-input NOR gate	.49	.45	.39
50198	7428	14	Quad 2-input NOR buffer	.39	.35	.25
50227	7430	14	8-input NAND gate	.25	.19	.10
50235	7432	14	Quad 2-input OR gate	.59	.49	.45
50315	7438	14	Quad 2-input NAND buffer (O.C.)	.45	.39	.35
50358	7440	14	Dual 4-input NAND buffer	.13	.11	.09
50374	7442	16	BCD-to-decimal decoder	.89	.79	.69
50403	7445	16	BCD-to-decimal decoder/driver (30V)	.89	.79	.69
50411	7446	16	BCD-to-7 segment decoder/driver (30V)	1.29	1.19	1.09
50420	7447	16	BCD-to-7 segment decoder/driver (15V)	1.09	.99	.89
50518	7470	14	Edge-triggered JK flip-flop	.69	.59	.55
50526	7472	14	AND gated JK master/slave flip-flop	.49	.45	.35
50534	7473	14	Dual JK flip-flop with clear	.99	.89	.79
50551	7474	14	Dual D flip-flop	.45	.39	.29
50577	7475	16	4-bit bi-stable latch	2.95	2.75	2.49
50593	7476	16	Dual JK flip-flop with preset and clear	1.19	1.09	.99
50631	7483	16	4-bit binary full adder	.89	.79	.69
50657	7485	16	4-bit magnitude comp.	.39	.29	.22
50665	7486	14	Quad EXCLUSIVE-OR gate	.79	.69	.59
50681	7489	16	64-bit RAM P 50ns	2.95	2.75	2.49
50690	7490	14	Decade counter	.89	.79	.69
50737	7492	14	Divide-by-12 counter	1.19	1.09	.89
50745	7493	14	4-bit binary counter	1.29	1.19	1.09
50770	7495	14	4-bit parallel-access shift register (K155N)	.69	.59	.39
50788	7496	16	5-bit parallel-in, parallel-out shift register	.49	.39	.29
50796	7497	16	Synch. 6-bit binary rate multipliers	3.49	3.29	2.95
49234	74107	14	Dual JK flip-flop with clear	.39	.30	.20
49251	74109	16	Dual positive edge triggered JK flip-flop	.37	.34	.31
49293	74116	24	Dual 4-bit latches with clear	.99	.89	.79
49322	74121	14	Monostable multivibrator	.99	.89	.79
49349	74122	14	Retriggerable mono. multivibrator with clear	.69	.59	.45
49357	74123	16	Dual retriggerable mono. multivibrator	.89	.79	.69
49373	74125	14	Quad bus buffer tri-state (DM8093N)	.89	.79	.69
49381	74126	14	Quad bus buffer tri-state (DM8094N)	.79	.69	.59
49411	74132	14	Quad 2-input NAND Schmitt trigger	.89	.79	.69
49496	74148	16	8 to 3 line octal priority encoder	.89	.79	.69
49509	74150	24	16 to 1 line multiplexer	1.95	1.75	1.55
49525	74151	16	8-input multiplexer	.29	.25	.14
49550	74153	16	Dual 4/1 data selector/multiplexer	.25	.22	.15
49568	74154	24	4 to 16 line decoder/demultiplexer	2.25	1.95	1.75
49605	74157	16	Quad 2/1 data selector	.39	.35	.29

7400 Series (Continued)

Dual-In-Line Package



Part No.	Product No.	Pins	Description	1	10	100
49648	74160	16	Decade counter with asynch. clear	$.35	$.29	$.19
49664	74161	16	Synchronous 4-bit counter	.39	.35	.25
49672	74163	16	Synchronous 4-bit counter	.29	.22	.12
49681	74164	14	8-bit serial shift register	.35	.29	.25
49699	74165	16	8-bit serial shift register, parallel load	.49	.45	.29
49779	74174	16	Hex D-type flip-flop with clear	.49	.45	.35
49795	74175	16	Quad D-type flip-flop with clear	.49	.45	.29
49824	74179	16	4-bit parallel-access shift register	.13	.11	.09
49832	74180	14	9-bit odd/even parity generator/checker	.25	.23	.21
49841	74181	24	Arithmetic logic unit/function generator	1.95	1.75	1.55
49883	74189	16	64-bit RAM tri-state (DM8599N)	3.59	3.25	2.95
49891	74190	16	Up/down decade counter	2.95	2.75	2.49
49904	74191	16	Binary up/down counter	.99	.89	.79
49912	74192	16	Decade up/down counter with clear	3.95	3.59	3.25
49939	74193	16	Binary up/down counter with clear	1.39	1.19	1.09
49955	74194	16	4-bit bi-directional shift register	1.25	.99	.79
49963	74195	16	4-bit parallel-access shift register	.13	.11	.09
50104	74259	16	8-bit addressable latch (9334)	.15	.13	.12
50171	74279	16	Quad set-reset latch	.39	.35	.29
50286	74367	16	Hex buffer tri-state (DM8097N)	.13	.11	.09
88225	SDLD001A	—	Texas Instruments TTL Data Book	34.95	31.49	29.95

Part No.	Description	See page 62 for kit details	1	10
84953	360 pc. 7400 series IC cabinet kit	$160 Value	$129.95	$116.95

74C00 Series

Dual-In-Line Package



Part No.	Product No.	Pins	Description	1	10
44222	74C00	14	Quad 2-input NAND gate	$.49	$.39
63538	74C02	14	Quad 2-input NOR gate	.24	.22
44231	74C04	14	Hex inverter (CD4069)	.39	.35
44257	74C14	14	Hex inverter Schmitt trigger (CD40106)	.39	.35
44441	74C74	14	Dual D flip-flop	1.29	1.19
44329	74C174	16	Hex flip-flop (CD40174/MC14174BPC)	.19	.15
44361	74C221	16	Dual monostable multivibrator	3.95	3.59
13469	74C367	16	Hex buffer tri-state (80C97/CD4503)	.49	.45
44396	74C373	20	Octal D-type flip-flop with clear tri-state	3.95	3.59
44409	74C374	20	Octal D-type flip-flop tri-state (INS82C06N)	1.49	1.25
44564	74C922	18	16-key keyboard encoder (INS8245N)	6.95	6.25
44572	74C923	20	20-key keyboard encoder (INS8246N)	6.95	6.25
44581	74C925	16	4-digit CTR with MUX D segment driver	6.95	5.95
44599	74C926	18	4-digit CTR with MUX D segment driver	7.95	6.95

74LS00 Series

Dual-In-Line Package



Part No.	Product No.	Pins	Description	1	10	100
46252	74LS00	14	Quad 2-input NAND gate	$.25	$.19	$.15
46287	74LS02	14	Quad 2-input NOR gate	.25	.19	.17
46308	74LS03	14	Quad 2-input NAND gate (O.C.)	.25	.19	.17
46316	74LS04	14	Hex inverter	.29	.25	.19
46341	74LS05	14	Hex inverter (O.C.)	.29	.25	.19
46359	74LS06	14	Hex inverter buffer/driver (O.C.)	.49	.45	.39
46367	74LS07	14	Hex buffer/driver (O.C. hi-voltage)	.89	.79	.69
46375	74LS08	14	Quad 2-input AND gate	.29	.25	.19
46391	74LS09	14	Quad 2-input AND gate (O.C.)	.25	.19	.15
46404	74LS10	14	Triple 3-input NAND gate	.29	.25	.19
46439	74LS11	14	Triple 3-input AND gate	.29	.25	.19
46640	74LS14	14	Hex inverter Schmitt trigger	.25	.19	.17
47095	74LS20	14	Dual 4-input NAND gate	.25	.19	.17
47108	74LS21	14	Dual 4-input AND gate	.25	.19	.17
47378	74LS27	14	Triple 3-input NOR gate	.25	.19	.17
47458	74LS30	14	8-input NAND gate	.25	.19	.17
47466	74LS32	14	Quad 2-input OR gate	.25	.19	.17
47597	74LS37	14	Quad 2-input NAND buffer	.39	.35	.29
47693	74LS38	14	Quad 2-input NAND buffer (O.C.)	.27	.25	.22
47773	74LS42	16	BCD-to-decimal decoder	.69	.59	.49
47790	74LS47	16	BCD to 7-seg. decoder/driver (O.C.)	.89	.79	.69
47811	74LS48	16	BCD to 7-seg. decoder/driver	4.95	4.49	3.95
47992	74LS73	14	Dual JK flip-flop with clear	.49	.45	.39

Call for pricing on quantities over 500 – we carry major manufacturers.

74LS00 Series (Continued)

Dual-In-Line Package

Part No.	Product No.	Pins	Description	1	10	100
48004	74LS74	14	Dual D flip-flop	$.29	$.25	$.22
48021	74LS75	16	4-bit bi-stable latch	.55	.45	.39
48039	74LS76	16	Dual JK flip-flop with preset and clear	.69	.59	.49
48063	74LS83	16	4-bit binary full adder	.45	.39	.35
48071	74LS85	16	4-bit magnitude comparator	.35	.29	.25
48098	74LS86	14	Quad Exclusive-OR gate	.29	.25	.22
48119	74LS90	14	Decade counter	.49	.45	.39
48143	74LS92	14	Divide-by-12 counter	.45	.39	.35
48151	74LS93	14	4-bit binary counter	.69	.59	.49
48178	74LS95	14	4-bit parallel-access shift register	.89	.79	.69
46412	74LS107	14	Dual JK flip-flop with clear	.25	.19	.17
46421	74LS109	16	Dual JK pos. edge-trig. flip-flop	.25	.19	.17
46447	74LS112	16	Dual JK neg. edge-trig. flip-flop	.25	.19	.17
46471	74LS122	14	Retrig. mono. multivibrator comm. CLK	.39	.35	.29
46480	74LS123	16	Dual mono. multivibrator with clear	.35	.29	.25
46501	74LS125	14	Quad bus buffer neg. enable tri-state	.35	.29	.22
46527	74LS126	14	Quad bus buffer tri-state	.35	.29	.25
46551	74LS132	14	Quad 2-input NAND Schmitt trigger	.35	.29	.25
46586	74LS136	14	Quad EXCLUSIVE-OR gate (O.C.)	.35	.29	.15
46607	74LS138	16	3 to 8 decoder/demultiplexer	.29	.25	.22
46623	74LS139	16	2 to 4 decoder/demultiplexer	.29	.25	.19
46666	74LS145	16	BCD-to-decimal decoder/driver	.49	.45	.39
46674	74LS147	16	10 to 4 priority encoder	.99	.89	.79
46682	74LS148	16	8 to 3 priority encoder	.79	.65	.45
46703	74LS151	16	8-input multiplexer	.29	.25	.22
46720	74LS153	16	Dual 4-to-1 selector/multiplexer	.29	.25	.22
46738	74LS154	24	4 to 16 line decoder/demultiplexer	1.95	1.75	1.55
46754	74LS155	16	Dual 2/4 demultiplexer	.35	.29	.25
46762	74LS156	16	Dual 2/4 demultiplexer (O.C.)	.12	.10	.09
46771	74LS157	16	Quad 2/1 data selector	.29	.25	.22
46800	74LS160	16	Decade counter with asynch. clear	.69	.59	.49
46818	74LS161	16	Synch 4-bit counter (733W01729L1)	.35	.29	.25
46842	74LS163	16	Fully synch. 4-bit counter	.35	.29	.25
46851	74LS164	14	8-bit serial shift register	.35	.29	.25
46877	74LS165	16	8-bit serial shift register, parallel load	.49	.45	.39
46885	74LS166	16	8-bit shift register, parallel load	.35	.29	.25
46906	74LS169	16	Synch. binary up/down counter	.59	.49	.35
46922	74LS173	16	4-bit D-type reg. tri-state	.39	.35	.29
46931	74LS174	16	Hex D flip-flop with clear	.29	.25	.17
46957	74LS175	16	Quad D flip-flop with clear	.29	.25	.22
46973	74LS181	24	Arithmetic logic unit/function generator	1.09	.99	.89
46990	74LS190	16	Synchronous up/down counter	1.19	1.09	.99
47001	74LS191	16	Up/down binary counter	.39	.35	.29
47010	74LS192	16	Decade up/down counter with clear	3.95	3.59	3.25
47036	74LS193	16	Binary up/down counter with clear	.59	.49	.45
47052	74LS194	16	4-bit bi-directional shift register	.59	.49	.45
47061	74LS195	16	4-bit parallel-access shift register	.35	.29	.25
47124	74LS221	16	Dual mono. multivibrator Schmitt trigger	.39	.35	.29
47141	74LS240	20	Octal invert. line driver tri-state	.39	.29	.25
47167	74LS241	20	Octal bus/line driver tri-state	.39	.29	.25
47175	74LS243	14	Quad transceiver tri-state	.39	.35	.29
47183	74LS244	20	Octal driver tri-state	.39	.35	.29
47212	74LS245	20	Octal bus transceiver tri-state	.39	.35	.29
47247	74LS247	16	BCD to 7-segment decoder/driver (O.C.)	.79	.69	.49
47271	74LS251	16	8-channel multiplexer tri-state	.35	.29	.25
47298	74LS257	16	Quad 2-input multiplexer tri-state	.25	.22	.15
47327	74LS259	16	8-bit addressable latch	.39	.35	.29
47360	74LS266	14	Quad EXCLUSIVE-NOR gate (O.C.)	.35	.29	.25
47386	74LS273	20	Octal D-type flip-flop with clear	.39	.35	.29
47407	74LS279	16	Quad set-reset latches	.29	.25	.22
47415	74LS280	14	9-bit odd/even parity generator/checker	.13	.11	.09
47423	74LS283	16	4-bit binary full add with fast carry	.45	.39	.29
47440	74LS299	20	8-bit universal shift/storage register	1.09	.99	.89
47546	74LS365	16	Hex buffer with logical OR tri-state	.29	.25	.22
47554	74LS366	14	Hex buffer/inverter tri-state	.29	.22	.18
47562	74LS367	16	Hex buffer tri-state	.29	.25	.22
47600	74LS373	20	Octal D flip-flop tri-state	.39	.35	.29

74LS00 Series (Continued)

Dual-In-Line Package

Part No.	Product No.	Pins	Description	1	10	100
47634	74LS374	20	Octal D F/F edge-trig tri-state	$.39	$.35	$.29
47669	74LS377	20	Octal D register common enable	.39	.35	.29
47722	74LS390	16	Dual 4-bit decade counter	.39	.35	.29
47731	74LS393	14	Dual 4-bit binary counter	.45	.39	.35
171803	74LS491	24	10-bit up/down counter	5.95	5.49	4.95
47861	74LS540	20	Octal invert. buffer/line driver tri-state	.49	.45	.39
47870	74LS541	20	Octal buffer/line driver tri-state	.69	.59	.49
64418	74LS573	20	Octal D-type F/F latch tri-state	1.29	1.19	1.09
64426	74LS574	20	Octal D-type F/F edge-trig. tri-state	1.29	1.19	1.09
47909	74LS590	16	8-bit binary counter without reg. tri-state	3.25	2.95	2.75
103974	74LS595	16	8-bit serial-to-parallel shift reg. tri-state	3.95	3.59	2.95
47950	74LS645	20	Octal bus transceiver tri-state	.79	.69	.59
47984	74LS688	20	8-bit magnitude comparator	1.09	.89	.69

Part No.	Description	1	10
84961	420 pc. 74LS series IC cabinet kit	$109.95	$99.95
130391	Refill package for 84961 kit (420 pcs.)	94.95	85.95

See page 62 for Kit details

$137 Value

74S00 Series

Dual-In-Line Package

Part No.	Product No.	Pins	Description	1	10
48320	74S10	14	Triple 3-input NAND gate	$.09	$.08
48750	74S32	14	Quad 2-input OR gate	.09	.08
48944	74S74	14	Dual D flip-flop	.25	.22
48531	74S188	16	256-bit (32 x 8) PROM O.C. (27S18)	5.95	5.39
48557	74S189	16	64-bit (16 x 4) RAM tri-state (27S03)	3.95	3.49
48696	74S287	16	1K-bit (256 x 4) PROM tri-state (TBP24S10)	6.95	6.25
48717	74S288	16	256-bit (32 x 8) PROM tri-state (TBP18S030N)	4.95	4.49
48768	74S373	20	Octal D-type flip-flop tri-state	.17	.15
48776	74S374	20	Octal D-type flip-flop edge-triggered tri-state	.21	.19
48805	74S387	16	1K-bit (256 x 4) PROM O.C. (TBP24SA10N)	5.95	5.39
52513	74S428	28	System contr./bus driver (8228)	1.95	1.75
48864	74S472	20	4K-bit (512 x 8) PROM tri-state (TBP28S42N)	8.95	7.95
48910	74S571	16	2K-bit (512 x 4) PROM tri-state (AM27S13)	6.95	6.25
48928	74S573	18	4K-bit (1024 x 4) PROM tri-state (53S441J)	4.95	4.49

74HC00 Series

Dual-In-Line Package

Part No.	Product No.	Pins	Description	1	10	100
45161	74HC00	14	Quad 2-input NAND gate (6231581)	$.19	$.17	$.15
45188	74HC02	14	Quad 2-input NOR gate	.19	.17	.15
45209	74HC04	14	Hex inverter (buffered)	.19	.17	.15
45225	74HC08	14	Quad 2-input AND gate	.19	.17	.15
45233	74HC10	14	Triple 3-input NAND gate	.25	.22	.19
45268	74HC11	14	Triple 3-input AND gate	.19	.15	.10
45364	74HC14	14	Hex inverter Schmitt trigger	.25	.22	.19
45786	74HC30	14	8-input NAND gate	.19	.17	.15
45794	74HC32	14	Quad 2-input OR gate	.19	.17	.13
46130	74HC74	14	Dual D flip-flop	.29	.25	.22
46172	74HC85	16	4-bit magnitude comparator	.59	.49	.45
46181	74HC86	14	Quad EXCLUSIVE-OR gate	.35	.29	.25
45292	74HC123	16	Dual retrig. monostable multivibrator	.35	.29	.25
45305	74HC125	14	Quad bus buffer tri-state	.39	.35	.29
45321	74HC132	14	Quad 2-input NAND Schmitt trigger	.35	.29	.19
45330	74HC138	16	3-to-8 decoder/demultiplexer	.35	.29	.25
45356	74HC139	16	2-to-4 decoder/demultiplexer	.35	.29	.25
45401	74HC154	S-24	4/16 line decoder (.3"W)	1.19	1.09	.99
111739	74HC154W	24	4/16 line decoder (.6"W)	1.49	1.35	1.09
45428	74HC157	16	Quad 2-input multiplexer	.19	.17	.15
45452	74HC161	16	Synchronous 4-bit counter	.35	.29	.25
45479	74HC163	16	Synchronous 4-bit counter	.15	.14	.12
45487	74HC164	14	8-bit serial shift register	.39	.35	.29
45495	74HC165	16	Parallel load 8-bit serial shift register	.35	.29	.25
45508	74HC174	16	Hex D flip-flop with clear	.35	.29	.19
45541	74HC192	16	Decade up/down counter with clear	1.59	1.49	1.39
45559	74HC193	16	Binary up/down counter with clear	.69	.59	.49
45604	74HC221	16	Dual mono. multivibrator Schmitt trigger	.49	.45	.35
45612	74HC240	20	Octal inverting line driver tri-state	.49	.45	.39
45655	74HC244	20	Octal driver tri-state	.39	.35	.29

We can special order any ICs – 100 piece minimum

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

Call for pricing on quantities over 500 – we carry major manufacturers.

74HC00 Series (Continued)

Dual-In-Line Package

Part No.	Product No.	Pins	Description	1	10	100
45671	74HC245	20	Octal transceiver tri-state	$.45	$.39	$.25
45743	74HC273	20	Octal D-type flip-flop with clear	.69	.59	.49
45831	74HC373	20	Octal D-type flip-flop tri-state	.45	.39	.35
45858	74HC374	20	Octal D-type flip-flop edge-trig tri-state	.45	.39	.35
45874	74HC393	14	Dual 4-bit binary counter	.59	.49	.35
109760	74HC540	20	Octal invert. buffer/line driver tri-state	.65	.55	.45
46050	74HC541	20	Octal buffer/line driver tri-state	.69	.55	.35
46076	74HC573	20	Octal D-type flip-flop tri-state	.69	.55	.35
46084	74HC574	20	Octal D-type flip-flop tri-state	.59	.45	.35
88090	74HC590	16	8-bit binary counter with output reg. tri-state	.89	.75	.64
46105	74HC595	16	8-bit serial-to-parallel shift reg. tri-state	.99	.89	.79
46113	74HC688	20	8-bit mag. comparator	.69	.55	.35
45891	74HC4017	16	Decade ctr./div. with 10 decoded outputs	.69	.49	.32
45903	74HC4020	16	14-stage binary counter	.69	.59	.49
45920	74HC4040	16	12-stage binary counter	.69	.59	.39
45938	74HC4046	16	CMOS phase lock loop	.89	.75	.55
45954	74HC4050	16	Hex buffer/converter	.29	.25	.25
88102	74HC4051	16	Single 8-channel multi/demultiplexer	.89	.69	.59
45962	74HC4060	16	14-stage binary counter	.75	.65	.45
45971	74HC4066	14	Quad analog switch	.49	.45	.35
46009	74HC4514	S-24	4/16-line decoder with latch (.3"W)	1.95	1.75	1.55
46017	74HC4538	16	Dual retrig. mono. multivibrator	.59	.49	.29

74HCT00 Series

Dual-In-Line Package

Part No.	Product No.	Pins	Description	1	10	100
44871	74HCT00	14	Quad 2-input NAND gate (Y560820T)	$.29	$.25	$.19
44898	74HCT04	14	Hex inverter	.29	.25	.19
63765	74HCT04	14	Hex inverter (O.C)	.29	.25	.22
44901	74HCT08	14	Quad 2-input AND gate	.25	.19	.12
44935	74HCT14	14	Hex inverter Schmitt trigger	.39	.35	.29
45057	74HCT32	14	Quad 2-input OR gate	.29	.25	.22
45137	74HCT74	14	Dual D flip-flop	.29	.25	.22
44927	74HCT138	16	3-to-8 decoder/demultiplexer	.29	.25	.22
63773	74HCT139	16	2-to-4 decoder/demultiplexer	.29	.25	.22
88057	74HCT154	24	4-to-16 decoder/demultiplexer	1.19	1.09	.99
45014	74HCT240	20	Octal inverting line driver tri-state	.39	.35	.25
45022	74HCT244	20	Octal driver tri-state	.35	.29	.19
45031	74HCT245	20	Octal transceiver tri-state	.45	.39	.35
45049	74HCT273	20	Octal D-type flip-flop with clear	.27	.25	.22
45065	74HCT373	20	Octal D-type flip-flop tri-state	.49	.45	.29
45073	74HCT374	20	Octal D-type flip-flop edge-trig. TS	.49	.45	.29
99303	74HCT541	20	Octal buffer/line driver tri-state	.59	.49	.45
45090	74HCT573	20	Octal D-type latched flip-flop tri-state	.69	.59	.45
45102	74HCT574	20	Octal D-type flip-flop edge-trigger tri-state	.69	.59	.49
45129	74HCT688	20	8-bit magnitude comparator	.69	.59	.49

CD4000 Type Series

Dual-In-Line Package

Part No.	Product No.	Pins	Description	1	10	100
12562	CD4001	14	Quad 2-input NOR gate	$.25	$.19	$.17
12597	CD4007	14	Dual comp. pair with inverter	.29	.25	.22
12634	CD4011	14	Quad 2-input NAND gate	.25	.19	.17
12677	CD4013	14	Dual D flip-flop with set/reset	.25	.19	.17
12706	CD4015	16	Dual 4-stage static shift register	.29	.25	.22
12722	CD4016	14	Quad bilateral switch	.29	.25	.22
12749	CD4017	16	Decade counter/divider	.35	.29	.25
12773	CD4018	16	Presettable divide-by-N counter	.49	.45	.39
12802	CD4020	16	14-stage binary/ripple counter	.45	.39	.35
12829	CD4021	16	8-stage static shift register	.35	.29	.19
54666	CD4022	16	Div. by 8-counter/driver w/8-decoded outputs	.59	.49	.45
12845	CD4023	14	Triple 3-input NAND gate	.25	.19	.14
12853	CD4024	14	7-stage binary counter	.35	.29	.25
12870	CD4025	14	Triple 3-input NOR gate	.25	.22	.19
12888	CD4027	16	Dual JK master-slave flip-flop	.25	.19	.17
12909	CD4028	16	BCD-to-decimal decoder	.35	.31	.27
12925	CD4029	16	Presettable up/down counter	.49	.45	.39
12950	CD4040	16	12-stage binary/ripple counter	.39	.35	.29
12984	CD4042	16	Quad clocked D latch	.29	.25	.19

CD4000 (Continued)

Dual-In-Line Package

Part No.	Product No.	Pins	Description	1	10	100
12992	CD4043	16	Quad NOR R-S latch tri-state	$.35	$.29	$.25
13004	CD4044	16	Quad 3-state NAND R-S latch tri-state	.49	.45	.39
13012	CD4046	16	Micropower phase-locked loop	.49	.45	.39
13039	CD4047	14	Monostable/astable multivibrator	.59	.49	.45
13055	CD4049	16	Hex/buffer/converter (inverting)	.25	.19	.17
13071	CD4050	16	Hex/buffer/converter (N-inverting)	.25	.19	.17
13098	CD4051	16	Single 8-channel multi./demultiplexer	.45	.39	.35
13119	CD4052	16	Diff. 4-channel multi./demultiplexer	.45	.39	.29
13127	CD4053	16	Triple 2-channel multi./demultiplexer	.45	.39	.35
13151	CD4060	16	14-stage ripple-carry binary	.49	.45	.39
13186	CD4066	14	Quad bilateral switch	.35	.29	.25
13215	CD4067	24	16-channel analog multi/demultiplexer	1.75	1.55	1.35
13231	CD4069	14	Hex inverter (74C04)	.25	.19	.17
13258	CD4070	14	Quad EXCLUSIVE-OR gate (74C86)	.25	.19	.15
13274	CD4071	14	Quad 2-input OR gate	.25	.19	.17
13354	CD4081	14	Quad 2-input AND gate	.25	.19	.17
13400	CD4093	14	Quad 2-input NAND Schmitt trigger	.29	.25	.22
13426	CD4094	16	8-stage shift-and-store bus register	.49	.45	.39
13434	CD4098	16	CMOS/MOS dual mono. multivibrator	.49	.45	.39
13442	CD4099	16	8-bit addressable latch	.49	.35	.25
44257	CD40106	14	Hex inverter Schmitt trigger (74C14)	.39	.35	.29
13469	CD4503	16	Tri-state hex buffer (74C367) 80C97	.49	.45	.39
13485	CD4510	16	BCD up/down counter	.69	.59	.49
13493	CD4511	16	BCD to 7-seg. latch/decoder/driver	.69	.59	.49
13514	CD4512	16	8-channel data selector	.59	.49	.45
13522	CD4514	24	4-bit latch/4-16 line decoder	.89	.79	.69
13549	CD4516	16	Binary up/down counter	.49	.45	.39
13565	CD4518	16	Dual BCD up counter	.49	.45	.39
13581	CD4520	16	Dual binary up counter	.49	.45	.35
13590	CD4522	16	Program. BCD divide-by-N counter	.59	.49	.45
13602	CD4526	16	Divide-by-N counter (binary)	.79	.69	.59
13611	CD4528	16	Dual monostable multivibrator	.69	.59	.49
13653	CD4538	16	Dual precision monostable multivibrator	.49	.45	.39
13688	CD4541	14	Oscillator/programmable timer	.49	.45	.39
13696	CD4543	16	BCD to 7-segment decoder (LCD)	.69	.59	.49
13709	CD4553	16	3-digit BCD counter	2.95	2.75	2.49
13725	CD4556	16	Dual binary 1 of 4 decoder inverter	.49	.45	.39
13768	CD4584	14	Hex Schmitt trigger (74C14) 40106	.39	.35	.29

Part No.	Description	See page 62 for kit details	1	10
84970	300 pc. CD4000 series IC cabinet kit	$99 Value	$79.95	$71.95
130403	Refill package for 84970 kit (300 pcs.)		64.95	57.95

6000 Series/Commodore

Dual-In-Line Package

Part No.	Product No.	Pins	Description	1	10
43191	6502	40	MPU with internal clock (1MHz)	$6.95	$6.25
43166	65C02	40	MPU with internal clock (CMOS)	6.95	6.25
43254	6522	40	VIA (versatile interface adapter) 1MHz	1.95	1.75
43297	6532	40	128 x 8 RAM, I/O timer array	7.95	6.95
43318	6551	28	ACIA (asynchronous comm. interface adapter)	3.95	3.49
43182	65C51	28	ACIA (asynchronous comm. interface adapter) CMOS	2.95	2.75
52951	8564	48	VIC (video interface chip for C128)	.19	.14

UARTs/USARTs/DUARTs/MUARTs

Dual-In-Line Package

Part No.	Product No.	Pins	Description	1	10
39634	2651	28	Communication chip (USART)	$1.49	$1.25
43158	6402	40	CMOS/LSI UART (TR1863)	4.95	4.49
27588	NS16450N	40	ACE (IBM-AT software compat.)	3.95	3.59
27570	NS16C450N	40	CMOS ACE (IBM-AT software compat.) (82C450)	5.95	5.39
27596	NS16550AN	40	Universal asynch. rcvr/trans. w/ FIFOs (PC16550DN)	5.95	5.39

Harris/ Intersil Type Series

Dual-In-Line Package

Part No.	Product No.	Pins	Description	1	10
43748	7106CPL	40	3 1/2-digit LCD single-chip A/D converter	$2.39	$2.19
43756	7107CPL	40	3 1/2-digit LED single-chip A/D converter	2.39	2.19
43764	7109CPL	40	12-bit A/D converter	5.95	5.39
43801	7217AIPI	28	4-digit LED up/down counter (com. cathode)	8.95	7.95

Call for pricing on quantities over 500 – we carry major manufacturers.

Harris/ intersil Type Series (Continued)

Dual-In-Line Package

Part No.	Product No.	Pins	Description	1	10
51140	7555IPA	8	CMOS timer (LM555CN)	$.59	$.49
51174	7660CPA	8	CMOS volt converter (+5 to ± 5V) (M660AN)	1.09	.99
172152	8020ACPD	14	Quad current switch for D/A conversion	.25	.19
51879	8038CCPD	14	Waveform generator/volt control OSC	3.49	3.19

MOTOROLA Type Series

Dual-In-Line Package

Part No.	Product No.	Pins	Description	1	10
25435	MC846P	14	Quad 2-input gate	$3.95	$3.59
24942	MC1350P	8	Video IF amp (12V operation)	1.29	1.19
14912	MC1408-6	16	8-bit D to A converter (DAC0806LCN)	1.79	1.59
14947	MC1408-8	16	8-bit D to A converter (DAC0808LCN)	1.49	1.29
118578	MC1495L	14	Linear four quadrant multiplier	7.95	6.39
23211	MC1496P	14	Balanced modulator/demodulator (LM1496N)	.89	.79
25216	MC3479P	16	Biphase stepper motor driver	4.95	4.49
25232	MC3486P	16	Quad EIA-422/423 line rec. with 3-state outputs	.59	.49
25259	MC3487P	16	Quad EIA-422 line driver with 3-state outputs	.59	.49
25275	MC4044P	14	Frequency phase detector (11C44)	8.95	7.95
25355	MC68701	40	8-bit EPROM (2048 USA) MPU w/ 128B RAM & I/O	15.95	13.95
25021	MC14411P	24	Bit rate frequency generator	6.95	6.25
25064	MC14490P	16	Hex contact bounce eliminator	5.95	5.39
118586	MC145151P	28	Parallel input PLL freq. synthesizer	5.95	5.39
25099	MC145406P	16	RS232-C/V.28 driver/rec. (CMOS)(75C1406N)	1.95	1.75
25101	MC146818	24	Real time clock plus RAM	4.95	4.25

Signetics Series

Dual-In-Line Package

Part No.	Product No.	Pins	Description	1	10
27844	N82S23	16	256-bit PROM open collector	$5.95	$5.39
27764	N82S123	16	256-bit PROM (32x8 tri-state) (27S19)	5.95	5.39
27772	N82S126	16	1024-bit PROM (256x4 open collector) (27S20)	6.95	6.25
27781	N82S129	16	1024-bit PROM (256x4 tri-state) (AM27S21)	7.95	6.95
27799	N82S131	16	2048-bit PROM (512x4 tri-state) (AM27S13)	6.95	6.25
27801	N82S137	18	4096-bit PROM (1024x4 tri-state)	4.95	4.49
27810	N82S181	24	8192-bit bipolar PROM (1024x8 tri-state) (DM87S181)	6.95	5.95
27828	N82S185	18	8192-bit PROM (2048x4 tri-state) (AM27S185DC)	4.95	4.49
27836	N82S191	24	16,384-bit PROM (2048x8 tri-state)	6.95	6.25

MAXIM Type Linear Series

Dual-In-Line Package

Part No.	Product No.	Pins	Description	1	10
142535	MAX202CPE	16	+5V RS232 transceiver requires 0.1µf caps	$2.49	$2.25
24811	MAX232CPE	16	+5V powered, dual RS232 transmitter/receiver (0°C to +70°C)	1.95	1.79
106147	MAX232CWE	16	+5V powered, dual RS232 (SOIC)transmitter/receiver	1.95	1.75
106155	MAX232EPE	16	+5V powered, dual RS232 transmitter/receiver (-40°C to +85°C)	2.49	2.25
106163	MAX233CPP	20	+5V powered, multichannel RS232 drivers/receivers (no ext. components)	4.95	4.49
106171	MAX235CPG	24	+5V powered, five RS232 transmitter/ receiver (no ext. components)	9.95	8.95
106180	MAX238CNG	24	+5V powered, quad RS232 transmitter and receiver	4.75	4.25
106219	MAX690CPA	8	Microprocessor watchdog/battery switchover/reset generator	3.95	3.59
106227	MAX691CPE	16	Microprocessor watchdog/battery switchover/reset generator	5.49	4.95
106260	MAX1232CPA	8	Microprocessor monitor	2.49	2.25

RCA Linear Series

Dual-In-Line Package

Part No.	Product No.	Pins	Description	1	10
12079	CA3046N	14	NPN transistor array (ULN2046)	$.49	$.35
12116	CA3080E	8	Op transconductance amp. (100135)	.69	.59
12124	CA3081N	16	Com. emitter NPN array (ULN2081)	.69	.59
12159	CA3086N	14	Transistor array NPN (ULN2086)	.49	.39
12183	CA3130E	8	CMOS op amp.	1.29	1.09
12204	CA3140E	8	Bi-MOS op amp.	.79	.69
12239	CA3161E	16	BCD to 7-seg. decoder driver	2.19	1.95
12247	CA3162E	16	Dual slope & rate analog/dig. convert	6.95	6.25
24168	CA3401N	14	Quad amp (LM3900N) (221-235)	.79	.69

ATMEL AT89C Series

Dual-In-Line Package

Part No.	Product No.	Pins	Description	1	10	100
168866	AT89C1051-24PC	20	8-bit MCU, 24MHz 1Kb flash memory	$3.75	$2.97	$2.55
168874	AT89C2051-24PC	20	8-bit MCU, 24MHz 2Kb flash memory	3.75	3.49	3.19
168891	AT89C51-20PC	40	8-bit MCU, 20MHz 4Kb flash memory	3.75	3.49	3.19
168903	AT89C51-24PC	40	8-bit MCU, 24MHz 4Kb flash memory	3.95	3.59	3.25
173930	AT89C52-20PC	40	8-bit MCU, 20MHz 8Kb flash memory	4.95	4.49	3.95
168920	AT89C52-24PC	40	8-bit MCU, 24MHz 8Kb flash memory	5.95	5.39	4.95
168938	AT89C52-24JC	44	8-bit MCU, 24MHz 8Kb flash memory PLCC	4.95	4.49	3.95
168946	AT89C55-24PC	40	8-bit MCU, 24MHz 20Kb flash memory	6.95	6.25	5.75

Linear Series

Package (See page 10)

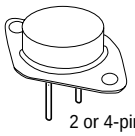
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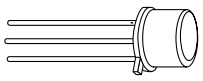
Part No.	Product No.	Pkg	Description	1	10	100
27852	OP07	DIP-8	Ultra-low-offset-voltage op amp.	$.99	$.89	$.79
193471	OP07CD✦	SOIC-8	Precision op amp.	✳	.89	.69
120715	LM10CN	DIP-8	Op amp and voltage reference	5.95	5.39	4.95
23106	LM10CLN	DIP-8	Low voltage (1.1 volt) op amp.	3.25	2.75	2.49
25751	MF10CN	DIP-20	General purpose dual active filter	3.25	2.75	2.49
120723	LM12CLK	TO-3/4	80W op amp.	29.95	27.95	25.95
16301	DS0026CN	DIP-8	Dual mos clk. driver (5MHz)(TC426CPA)	1.95	1.75	1.49
107094	LM34CZ	TO-92	Prec. F temp. sensor (-40˚F to +230˚F)	5.95	5.39	4.95
193480	LM34DM✦	SOIC-8	Prec. F temp. sensor (-55˚F to 300˚F)	✳	1.35	.99
155192	LM34DZ	TO-92	Prec. F temp. sensor (+32˚F to +212˚F)	1.75	1.55	1.35
193498	LM35DM✦	SOIC-8	Prec. C temp. sensor (-55˚C to 150˚C)	✳	1.49	1.09
192217	LM35DT	TO-220/3	Prec. C temp. sensor (-55˚C to 150˚C)	2.79	2.09	1.49
107107	LM35CZ	TO-92	Prec. C temp. sensor (-40˚C to 110˚C)	5.95	5.39	4.95
155740	LM35DZ	TO-92	Prec. C temp. sensor (0˚C to +100˚C)	1.75	1.55	1.35
33161	TL062CP	DIP-8	Low-power JFET op amp. (VCC 8-pin)	.69	.59	.49
33187	TL071CP	DIP-8	Low noise JFET op amp.	.39	.35	.29
193501	TL072CD✦	SOIC-8	Low noise JFET dual op amp.	✳	.45	.39
33195	TL072CP	DIP-8	Low noise JFET dual op amp.	.39	.35	.29
193519	TL074CD✦	SOIC-8	Low noise JFET quad op amp.	✳	.45	.39
33216	TL074CN	DIP-14	Low noise JFET quad op amp.	.55	.45	.39
33232	TL081CP	DIP-8	JFET-input op amp.	.49	.45	.39
193527	TL082CD✦	SOIC-8	JFET input dual op amp.	✳	.39	.35
33241	TL082CP	DIP-8	JFET input dual op amp.	.49	.45	.39
193535	TL084CD✦	SOIC-14	JFET input quad op amp.	✳	.45	.39
33267	TL084CN	DIP-14	JFET-input quad op amp.	.55	.45	.39
24811	MAX232CPE	DIP-16	Dual RS232 receiver/transmitter	1.95	1.79	1.59
23392	LM301N	DIP-8	Improved op amp.	.39	.35	.29
23464	LM308N	DIP-8	Precision op amp.	3.95	3.59	3.25
23499	LM309K	TO-3/2	5V 1A regulator (0˚C to +125˚C)	4.49	3.95	3.49
193543	LM311D✦	SOIC-8	Voltage comparator	✳	.25	.19
23528	LM311N	DIP-8	Voltage comparator	.29	.25	.22
192268	LM317AT	TO-220/3	3-terminal adjustable regulator	1.95	1.49	1.09
192276	LM317HVT	TO-39/3	3-terminal adjustable regulator	2.75	2.09	1.49
23544	LM317K	TO-3/2	1.5A adj. pos. reg. (1.2V-37V)	1.95	1.75	1.55
193551	LM317LM✦	SOIC-8	3-terminal adjustable regulator	✳	.35	.29
23552	LM317LZ	TO-92	100mA adj. pos. reg. (1.2V-37V)	.49	.39	.29
23579	LM317T	TO-220/3	1.5A adj. pos. reg. (1.2V-37V)	.45	.39	.35
23608	LM318N	DIP-8	Precision hi-speed op amp.	.69	.59	.49
23632	LM319N	DIP-14	Hi-speed dual comparator	.79	.65	.49
23667	LM323K	TO-3/2	5V 3A positive reg.	3.95	3.59	3.25
23683	LM324N	DIP-14	Low power quad op amp. (ULN4336)	.29	.25	.22
86721	LM324D✦	SOIC-14	Low power quad op amp.	.25	.22	.15
192559	LP324N	DIP-14	Micropower quad op amp.	1.49	1.09	.79
23721	LM331N	DIP-8	Prec. volt to freq. converter (150ppm/°C)	2.95	2.75	2.49
23739	LM334Z	TO-92	Adjust current source	.79	.69	.59
120820	LM335AZ	TO-92	Precision temperature sensor	2.95	2.75	2.36
193560	LM335M✦	SOIC-8	Precision temperature sensor	✳	1.95	1.49
23755	LM335Z	TO-92	Volt mode temperature sensor	.99	.89	.79
193578	LM336M-2.5✦	SOIC-8	Precision 2.5V shunt regulator diode	✳	.59	.49
23771	LM336Z	TO-92	Voltage reference (2.5V)	.79	.69	.59
23798	LM337K	TO-3/2	1.5A/3 term. adj. neg. reg.	2.95	2.75	2.49
193586	LM337LM	SOT-223	1.5A/3-terminal adj. neg. regulator	✳	1.09	.89
23819	LM337T	TO-220/3	1.5A/adj. neg. reg. (-1.2V-37V)	.79	.69	.59
23835	LM338K	TO-3/2	5A adj. pos. reg. (1.2V-32V)	3.95	3.59	3.25

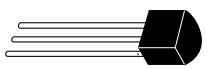
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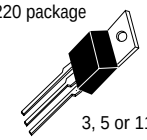
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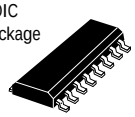
TO-3 package  2 or 4-pin

TO-5 package  3, 4, 8 or 10-pin

TO-92 package  3-pin

TO-220 package  3, 5 or 11-pin

DIP package  8, 10, 14, 16, 18, 20 or 28-pin

SOIC package  8, 14 or 16-pin

Linear Series (Continued)

Package (see above)

✳ Prepackaged: please order in increments of 10 or 100 — ✦ Surface Mount

Part No.	Product No.	Pkg	Description	1	10	100
192284	LM338T	TO-220/3	5A adjustable regulator	$2.59	$1.95	$1.45
193594	LM339M✦	SOIC-14	Low pwr. low offset volt quad comparator	✳	.25	.22
23851	LM339N	DIP-14	Quad comparator	.29	.25	.22
22904	LF347N	DIP-14	Quad JFET input op amp. (wide band)	.69	.55	.39
23915	LM348N	DIP-14	Quad 741 op amp. (UPC4741C)	.49	.45	.39
23931	LM350K	TO-3/2	3A/3 term. adj. pos. reg. (1.2V-33V)	3.95	3.59	3.25
23940	LM350T	TO-220/3	3 amp. adj. power regulator	1.75	1.55	1.35
22912	LF351N	DIP-8	BIFET op amp.	.49	.45	.39
22939	LF353N	DIP-8	Dual BIFET op amp. (comp. w/ TL082CP)	.39	.35	.29
193607	LF356M✦	SOIC-8	JFET input op amp (wide band)	✳	.69	.59
22971	LF356N	DIP-8	JFET input op amp. (wide band)	.79	.69	.59
22998	LF357N	DIP-8	JFET input op amp. (wide band decom.)	.79	.69	.59
120862	LM358AN	DIP-8	Low power dual op amp (elect improv.)	.69	.59	.49
193615	LM358D✦	SOIC-8	Low power dual op amp	✳	.25	.22
23966	LM358N	DIP-8	Low power dual op amp.	.29	.25	.19
24037	LM380N	DIP-14	2-watt audio power amp.	1.19	1.09	.99
24088	LM383T	TO-220/5	7-watt audio high power amp.	5.95	5.39	4.95
24096	LM384N	DIP-14	5-watt audio amp.	1.75	1.55	1.35
120889	LM385BZ2.5	TO-92	Volt. ref. diode (2.5V±1.5%)	1.09	.99	.89
24109	LM385Z	TO-92	Volt. ref. diode (2.5V±3%)	.49	.35	.25
24117	LM385Z12	TO-92	Micropower volt. ref. diode (1.2V)	.79	.69	.59
193623	LM386M-1✦	SOIC-8	Low voltage audio power amp. 250mW/12V	✳	.35	.29
24125	LM386N-1	DIP-8	Low voltage audio amp. 250mW/6V	.39	.35	.29
24133	LM386N-3	DIP-8	Low voltage audio amp. 500mW/9V	.69	.59	.49
193631	LM393D✦	SOIC-8	Low power offset voltage dual comparator	✳	.25	.22
24281	LM393N	DIP-8	Dual comparator	.35	.29	.25
23000	LF398N	DIP-8	Sample and hold circuit	1.49	1.29	1.19
23018	LF411CN	DIP-8	Low offset drift JFET input op amp.	.79	.69	.59
193640	LF412CD✦	SOIC-8	Low offset drift JFET input dual op amp.	✳	1.35	1.19
23026	LF412CN	DIP-8	Low offset drift JFET input dual op amp.	1.19	1.09	.99
33347	TL431CLP	TO-92	Program precision reference	.39	.35	.29
33355	TL494CN	DIP-16	Control. ckt. pulse width modulated	.79	.69	.59
27422	LM555CN	DIP-8	Timer (MC1455P/NE555V)	.25	.22	.19
86799	LM555CM✦	SOIC-8	Timer (NE555D)	.25	.22	.19
126797	LMC555CN	DIP-8	CMOS 555 timer	.49	.45	.39
34930	XRL555	DIP-8	Micro power 555 timer	.89	.79	.69
193658	LM556CM✦	SOIC-14	Dual 555 timer	✳	.35	.29
24328	LM556N	DIP-14	Dual 555 timer (MC3456P)	.45	.39	.35
180419	HA17558	DIP-8	Dual op amp.	.29	.24	.22
27457	NE558N	DIP-16	Quad timer (NE558C)	.69	.59	.49
27473	NE564N	DIP-16	High frequency phase locked loop	1.95	1.75	1.55
24352	LM565N	DIP-14	Phased locked loop	1.49	1.29	1.19
193666	LM567CM✦	SOIC-8	Tone decoder	✳	.59	.45
24395	LM567V	DIP-8	Tone decoder	.49	.45	.39
27490	NE571N	DIP-16	Compandor, subscriber	2.75	2.49	2.25
143976	LMC660CN	DIP-14	CMOS quad operational amp.	1.55	1.39	1.25
120926	LM675T	TO-220/5	Power op amp.	6.95	6.25	5.49
24459	LM723CH	TO-5/10	Voltage regulator (2V-37V)	.99	.89	.79
24467	LM723CN	DIP-14	Voltage regulator (2V-37V)	.39	.35	.29
24483	LM725CN	DIP-8	Instrumentation op amp.	2.75	2.49	2.25
24491	LM733CN	DIP-14	Differential amp.	.99	.89	.79
24521	LM741CH	TO-5/8	Op amp.	2.25	1.95	1.75
24539	LM741CN	DIP-8	Op amp. (ULN2151)	.25	.22	.19
193674	LM741CM✦	SOIC-8	Op amp.	✳	.29	.25
24563	LM747CN	DIP-14	Dual 741 op amp.	3.95	3.59	3.25
143896	LM837N	DIP-14	Low-noise quad operational amp.	1.95	1.75	1.55
192292	LM1086CTADJ	TO-220/3	1.5A low drop out positive regulator	1.65	1.19	.89
192305	LM1086CT-3.3	TO-220/3	1.5 low drop out positive regulator (3.3V)	1.65	1.19	.89
192313	LM1086CT-5.0	TO-220/3	1.5A low drop out positive regulator (5V)	1.65	1.19	.89

Linear Series (Continued)

Package (see above)

✳ Prepackaged: please order in increments of 10 or 100 — ✦ Surface Mount

Part No.	Product No.	Pkg	Description	1	10	100
119706	LM1203N	DIP-28	RGB video amp system	$1.49	$1.39	$1.19
192532	LM13700N	DIP-16	Dual op transcon amp. w/ diodes & buffer	1.65	1.19	.89
23131	LM1458N	DIP-8	Dual op amp. (RC4558)	.25	.22	.19
193682	LM1458M✦	SOIC-8	Dual op amp.	✳	.25	.22
193691	LM1488D✦	SOIC-14	Quad line driver RS232	✳	.25	.25
23157	LM1488N	DIP-14	Quad line driver RS232 (75188)	.29	.25	.22
16361	DS14C88N	DIP-14	Quad CMOS line driver (RS232)	.59	.49	.45
193703	LM1489D✦	SOIC-14	Quad line rec. (RS232)	✳	.25	.22
23181	LM1489N	DIP-14	Quad line rec. RS232 (75189)	.29	.25	.22
16379	DS14C89N	DIP-14	Quad CMOS line rec. (RS232)	.59	.49	.45
23211	LM1496N	DIP-14	Balanced mod./demodulator (MC1496P)	.89	.79	.69
23270	LM1875T	TO-220/5	20-watt power audio amp.	2.25	1.95	1.75
23288	LM1877N-9	DIP-14	Dual power audio amp.	1.95	1.75	1.25
107140	LM1881N	DIP-8	Video synchronous separator	2.75	2.49	2.25
34260	ULN2001	DIP-16	Hi-volt./curr. darl. transistor array	.39	.35	.29
32897	TDA2002V	TO-220/5	8-watt audio high power amp.	1.95	1.75	1.55
34278	ULN2003A	DIP-16	Hi-volt/curr. darl. transistor array	.39	.35	.29
193826	ULN2003AD✦	SOIC-16	Hi-volt/curr. darl. transistor array	✳	.35	.29
34294	ULN2004A	DIP-16	Hi-volt/curr. darl. trans. array (XR2204CP)	.39	.35	.29
34972	XR2206	DIP-16	Monolithic function generator	3.25	2.95	2.75
34999	XR2211	DIP-14	FSK demodulator/tone decoder	1.79	1.59	1.39
192321	LM2574HVN-ADJ	DIP-8	Simple Switcher 0.5A step down volt. reg.	3.75	2.95	2.25
192330	LM2574HVN-5.0	DIP-8	Simple Switcher 0.5A step down volt. reg.	3.75	2.95	2.25
192348	LM2574HVN-12	DIP-8	Simple Switcher 0.5A step down volt. reg.	3.75	2.95	2.25
156566	LM2574N-5	DIP-8	Step-down 5-voltage regulator	2.49	2.19	1.95
192356	LM2575N-5.0	DIP-16	Simple Switcher 1A step down volt. reg.	2.95	2.25	1.65
192364	LM2575N-12	DIP-16	Simple Switcher 1A step down volt. reg.	2.95	2.25	1.65
192372	LM2576HVT-ADJ	TO-220/5	Simple Switcher 3A step down volt. reg.	5.95	4.65	3.49
192381	LM2576HVT-5.0	TO-220/5	Simple Switcher 3A step down volt. reg.	5.95	4.65	3.49
192399	LM2576HVT-12	TO-220/5	Simple Switcher 3A step down volt. reg.	5.95	4.65	3.49
192401	LM2576HVT-15	TO-220/5	Simple Switcher 3A step down volt. reg.	5.95	4.65	3.49
192410	LM2587T-ADJ	TO-220/5	Simple Switcher 5A flyback regulator	8.25	6.49	5.25
192428	LM2594N-ADJ	DIP-8	Simple Switcher pwr. conv. 150kHz 0.5A	3.09	2.35	1.79
192436	LM2594N-5.0	DIP-8	Simple Switcher pwr. conv. 150kHz 0.5A	3.09	2.35	1.79
192444	LM2595T-ADJ	TO-220/5	Simple Switcher pwr. conv. 150kHz 1A	3.75	2.95	2.25
192452	LM2595T-5.0	TO-220/5	Simple Switcher pwr. conv. 150kHz 1A	3.75	2.95	2.25
192461	LM2595T-12	TO-220/5	Simple Switcher pwr. conv. 150kHz 1A	3.75	2.95	2.25
192479	LM2675N-5.0	DIP-8	Simple Switcher pwr. conv. high eff. 1A	5.25	3.95	3.09
39571	26LS30	DIP-16	Dual diff RS422 party line Qd RS423 line driv.	1.75	1.49	1.25
39589	26LS31	DIP-16	Quad diff line driver	.79	.69	.49
39600	26LS32	DIP-16	Quad diff line receiver	.59	.49	.35
34315	ULN2803A	DIP-18	Hi-volt. hi-curr. darl. transis. array	.69	.59	.49
23296	LM2901N	DIP-14	Quad comp.	.39	.29	.22
123625	LM2907N-8	DIP-8	Frequency to volt converter	1.95	1.75	1.55
23317	LM2907N	DIP-14	Frequency to volt converter	1.75	1.55	1.25
23350	LM2917N-8	DIP-8	Frequency to volt converter	2.95	2.75	2.49
23341	LM2917N-14	DIP-14	Frequency to volt converter	2.75	2.49	2.25
107166	LM2936Z-5	TO-92	Ultra-low quiescent current 5V reg.	1.49	1.29	1.19
192487	LM2937ET-5.0	TO-220/3	0.5A low drop out regulator (5V)	1.75	1.35	.99
107182	LM2940CT-5	TO-220/3	5V low dropout reg. (max. 45Vin)	1.29	1.19	1.09
192495	LM2940CT-12	TO-220/3	12V low dropout reg. (max 45Vin)	1.75	1.25	.95
192508	LM2940CT-15	TO-220/3	15V low dropout reg. (max 45Vin)	1.75	1.25	.95
23376	LM2941T	TO-220/5	1A low dropout adjustable regulator	1.75	1.55	1.35
121064	LM2941CT	TO-220/5	1A low dropout adjustable regulator	.99	.91	.81
107238	LM3302N	DIP-14	Low pwr. low offset volt quad cmpr.	.29	.26	.24
31974	SG3524	DIP-16	Regulating pulse width modulator	.79	.69	.59
126834	LM3876T	TO-220/11	40W high perf. audio amp. with mute	4.49	3.95	3.59
192516	LM3886T	TO-220/11	68W high perf. audio amp. with mute	5.19	3.95	2.95
24168	LM3900N	DIP-14	Quad amp. (CA3401)	.79	.69	.59

Call for pricing on quantities over 100 – we carry major manufacturers.

Linear Series (Continued)

Package (see page 10)

✳ Prepackaged: please order in increments of 10 or 100 ✦ Surface Mount

Part No.	Product No.	Pkg	Description	1	10	100
24230	LM3914N	DIP-18	Bar-graph display driver	$1.95	$1.75	$1.55
24256	LM3915N	DIP-18	3 DB steps bar-graph disp. driver	1.75	1.55	1.35
24272	LM3916N	DIP-18	VU meter display driver	2.25	1.95	1.75
192524	LM3940IT-3.3	TO-220/3	1A low dropout reg. for 5V to 3.3 conv.	2.25	1.69	1.25
29356	RC4136N	DIP-14	Quad op amp (XR4136)	.89	.79	.69
29372	RC4151NB	DIP-8	Volt to freq. converter (XR4151)	1.29	1.19	1.09
27385	NE5532	DIP-8	Dual low noise op amp	.59	.49	.39
193738	NE5532D✦	SOIC-8	Dual low noise op amp.	✳	.45	.39
27406	NE5534	DIP-8	Low noise op amp.	.79	.69	.59
193746	NE5534D✦	SOIC-8	Low noise op amp.	✳	.32	.29
192541	LMC6032IN	DIP-8	CMOS dual op amp.	1.09	.79	.45
51182	78L05	TO-92	5V pos. voltage regulator (100mA)	✳	.19	.15
193754	78L05ACM✦	SOIC-8	5V pos. voltage regulator (100mA)	✳	.29	.25
193762	78L06ACM✦	SOIC-8	6.2V pos. voltage regulator (100mA)	✳	.29	.25
192225	78L09	TO-92	9V pos. voltage regulator (100mA)	✳	.19	.15
51203	78L12	TO-92	12V pos. voltage regulator (100mA)	✳	.19	.15
193771	78L12ACM✦	SOIC-8	12V pos. voltage regulator (100mA)	✳	.29	.25
194642	78L15	TO-92	15V pos. voltage regulator (100mA)	.19	.15	.13
193789	78L15ACM✦	SOIC-8	15V pos. voltage regulator (100mA)	✳	.29	.25
194651	78L18	TO-92	18V pos. voltage regulator (100mA)	.35	.28	.28
194669	78L24	TO-92	24V pos. voltage regulator (100mA)	.25	.22	.19
192233	78M05	TO-220/3	5V pos. voltage regulator (500mA)	.27	.24	.21
192241	78M12	TO-220/3	12V pos. voltage regulator (500mA)	.27	.24	.21
192250	78M15	TO-220/3	15V pos. voltage regulator (500mA)	.27	.24	.21
51246	7805K	TO-3/2	5V 1A pos. voltage reg. (LM340K-5)	1.49	1.39	1.29
51318	7812K	TO-3/2	12V 1A pos. voltage reg. (LM340K-12)	1.49	1.39	1.29
51369	7815K	TO-3/2	15V 1A pos. voltage reg. (LM340K-15)	.99	.69	.45
51262	7805T	TO-220/3	5V 1A pos. voltage reg. (LM340T-5)	.29	.25	.22
51297	7806T	TO-220/3	6V 1A pos. voltage reg. (LM340T-6)	.29	.25	.22
51300	7808T	TO-220/3	8V 1A pos. voltage regulator	.29	.25	.22
51334	7812T	TO-220/3	12V 1A pos. voltage regulator	.29	.25	.22
51377	7815T	TO-220/3	15V 1A pos. voltage regulator	.29	.25	.22
194634	7818CT	TO-220/3	18V 1A pos. voltage regulator	.29	.25	.22
51414	7824T	TO-220/3	24V 1A pos. voltage regulator	.25	.22	.19
51238	78S40	DIP-16	1.5 amp switching reg. (1.25V-40V)	1.49	1.25	.99
51422	79L05	TO-92	5V neg. voltage regulator (100mA)	.25	.22	.19
193797	79L05ACM✦	SOIC-8	5V neg. voltage regulator (100mA)	✳	.35	.25
194731	79L08	TO-92	8V neg. voltage regulator (100mA)	.25	.22	.19
51431	79L12	TO-92	12V neg. voltage regulator (100mA)	.22	.19	.17
194749	79L15	TO-92	15V neg. voltage regulator (100mA)	.25	.22	.19
193800	79L12ACM✦	SOIC-8	12V neg. voltage regulator (100mA)	✳	.35	.25
193818	79L15ACM✦	SOIC-8	15V neg. voltage regulator (100mA)	✳	.35	.29
194757	79L18	TO-92	18V neg. voltage regulator (100mA)	.45	.40	.36
194765	79L24	TO-92	24V neg. voltage regulator (100mA)	.24	.22	.19
51457	7905T	TO-220/3	5V 1A neg. voltage regulator	.35	.29	.25
194685	7908	TO-220/3	8V 1A neg. voltage regulator	.31	.26	.24
51481	7912T	TO-220/3	12V 1A neg. voltage regulator	.35	.29	.25
51502	7915T	TO-220/3	15V 1A neg. voltage regulator	.35	.29	.25
194714	7918CT	TO-220/3	18V 1A neg. voltage regulator	.35	.29	.25
51879	8038CCPD	DIP-14	Precision wave form generator	3.49	3.19	2.75
50876	75150	DIP-8	Dual line driver	✳	.49	.45
50884	75154	DIP-16	Quad line receiver	.89	.79	.69
50930	75173	DIP-16	Quadruple differ. line receiver	1.69	1.49	1.09
50948	75174	DIP-16	Quad diff. RS422 line driver w/ 3-state out	1.09	.99	.89
50956	75175	DIP-16	Quad diff. EIA 422A/423A line rec.w/3-st.out	1.09	.99	.89
50964	75176	DIP-8	Differential bus transceiver	.79	.69	.59
16432	75183	DIP-14	Quad differential line driver (DS8830N)	1.09	.99	.59
23157	75188	DIP-14	Quad line driver RS232 (LM1488N)	.29	.25	.22
23181	75189	DIP-14	Quad line rec. RS232 (LM1489N)	.29	.25	.22
51027	75451	DIP-8	Dual peripheral AND driver	.35	.29	.25
51035	75452	DIP-8	Dual peripheral NAND driver	.45	.39	.35
51131	75492	DIP-14	Hex digit driver (492)	6.95	6.25	5.95

Part No.	Description	1	10
84988	480 pc. Linear IC cabinet kit	$169.95	$152.95
130411	Refill package for 84988 (480 pcs.)	154.95	139.95

See page 62 for kit details

$191 Value

A/D & D/A Converters

Dual-In-Line Package



Part No.	Product No.	Pins	Description	1	10
10145	ADC0803LCN	20	8-bit A/D converter (±1/2 LSB)	$6.95	$5.95
10153	ADC0804LCN	20	8-bit A/D converter (1 LSB)	2.19	1.95
10170	ADC0808CCN	28	8-bit A/D converter with 8-ch. analog	5.95	5.39
10188	ADC0809CCN	28	8-bit A/D converter (8-ch. MPX)	2.95	2.75
10209	ADC0817CCN	40	8-bit A/D converter (16-ch. MPX)	9.95	8.95
10225	ADC0820CCN	20	8-bit hi-spd. A/D conv. with track/hold	4.95	4.49
116100	ADC0831CCN	8	8-bit A/D converter w/ single differential input	1.95	1.75
14904	DAC0800LCN	16	8-bit D/A converter (±1 LSB)	1.79	1.59
14912	DAC0806LCN	16	8-bit D/A convtr. (±1 LSB) MC1408P6	1.79	1.59
14947	DAC0808LCN	16	8-bit D/A converter (MC1408P8)	1.49	1.29
14963	DAC0830LCN	20	8-bit µP D/A converter (.05% Lin.)	5.95	5.39
128186	DAC0832LCN	20	8-bit µP D/A conv. dbl. buff. (20% Lin.)	3.95	3.59
14980	DAC1222LCN	18	12-bit D/A converter (.20% Lin.)	9.95	8.95

EPROMS

Dual-In-Line Package



Part No.	Product No.	Pins	Description			1	10
39909	2708	24	1K x 8	8K	450ns (+5V, -5V, +12V)	$4.95	$4.49
33591	TMS2532A	24	4K x 8	32K	450ns (21V)	3.95	3.59
33611	TMS2716	24	2K x 8	16K	450ns (+5V, -5V, +12V)	2.25	1.49
40002	2716	24	2K x 8	16K	450ns (25V)	3.25	2.95
40011	2716-1	24	2K x 8	16K	350ns (25V)	5.95	5.39
39706	27C16	24	2K x 8	16K	450ns (25V) CMOS	5.95	5.49
114876	2732B	24	4K x 8	32K	450ns (12.5V)	5.95	5.39
40096	2732	24	4K x 8	32K	450ns (25V)	5.95	5.39
40109	2732A-20	24	4K x 8	32K	200ns (21V)	5.95	5.39
40125	2732A-25	24	4K x 8	32K	250ns (21V)	4.95	4.49
40133	2732A-45	24	4K x 8	32K	450ns (21V)	3.95	3.59
39765	27C32	24	4K x 8	32K	450ns (25V) CMOS	4.95	4.49
40192	2764-20	28	8K x 8	64K	200ns (21V)	5.25	4.75
40205	2764-25	28	8K x 8	64K	250ns (21V)	4.95	4.49
40230	2764A-20	28	8K x 8	64K	200ns (12.5V)	3.95	3.59
40248	2764A-25	28	8K x 8	64K	250ns (12.5V)	3.25	2.95
105304	27C64-12	28	8K x 8	64K	120ns (12.5V) CMOS	5.95	5.39
39829	27C64-15	28	8K x 8	64K	150ns (12.5V) CMOS	4.95	4.49
74608	27C64-20	28	8K x 8	64K	200ns (12.5V) CMOS	4.25	3.75
39845	27C64-25	28	8K x 8	64K	250ns (12.5V) CMOS	3.95	3.59
39933	27128-25	28	16K x 8	128K	250ns (21V)	5.95	4.95
39950	27128A-15	28	16K x 8	128K	150ns (12.5V)	4.49	3.95
39968	27128A-20	28	16K x 8	128K	200ns (12.5V)	4.25	3.75
39984	27128A-25	28	16K x 8	128K	250ns (12.5V)	3.95	3.59
87935	27C128-12	28	16K x 8	128K	120ns (12.5V) CMOS	3.95	3.59
39677	27C128-15	28	16K x 8	128K	150ns (12.5V) CMOS	3.75	3.49
101101	27C128-20	28	16K x 8	128K	200ns (12.5V) CMOS	3.49	3.25
39685	27C128-25	28	16K x 8	128K	250ns (12.5V) CMOS	3.25	2.95
40037	27256-15	28	32K x 8	256K	150ns (12.5V)	5.49	4.95
40045	27256-20	28	32K x 8	256K	200ns (12.5V)	3.75	3.49
40061	27256-25	28	32K x 8	256K	250ns (12.5V)	3.49	3.19
140476	27C256-70	28	32K x 8	256K	70ns (12.5V) CMOS	5.95	5.39
112740	27C256-10	28	32K x 8	256K	100ns (12.5V) CMOS	5.75	5.25
65904	27C256-12	28	32K x 8	256K	120ns (12.5V) CMOS	5.25	4.75
39714	27C256-15	28	32K x 8	256K	150ns (12.5V) CMOS	4.95	4.49
39722	27C256-20	28	32K x 8	256K	200ns (12.5V) CMOS	4.25	3.75
39731	27C256-25	28	32K x 8	256K	250ns (12.5V) CMOS	4.25	3.75
40150	27512-20	28	64K x 8	512K	200ns (12.5V)	2.95	2.75
40168	27512-25	28	64K x 8	512K	250ns (12.5V)	2.75	2.55
175206	27C512-90	28	64K x 8	512K	90ns (12.5V) CMOS	7.95	6.95
131959	27C512-10	28	64K x 8	512K	100ns (12.5V) CMOS	5.75	5.25
39773	27C512-12	28	64K x 8	512K	120ns (12.5V) CMOS	5.75	5.25
39781	27C512-15	28	64K x 8	512K	150ns (12.5V) CMOS	5.49	5.09
39790	27C512-20	28	64K x 8	512K	200ns (12.5V) CMOS	4.95	4.49
39802	27C512-25	28	64K x 8	512K	250ns (12.5V) CMOS	4.75	4.39
118148	27C1024-15	40	64K x 16	1024K	150ns (12.5V) CMOS	4.75	4.39
137701	27C010-45	32	128K x 8	1024K	45ns (12.5V) CMOS	6.95	6.25
146149	27C010-70	32	128K x 8	1024K	70ns (12.5V) CMOS	6.95	6.25
137699	27C010-80	32	128K x 8	1024K	80ns (12.5V) CMOS	5.75	5.25

See EPROM programmers on page 130 & 131

We can special order any ICs – 100 piece minimum

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

Call for pricing on quantities over 100 – we carry major manufacturers.

EPROMs (Continued)

Dual-In-Line Package

Part No.	Product No.	Description				1	10
79231	27C010-10	32	128K x 8	1024K	100ns (12.5V) CMOS	$5.25	$3.80
74624	27C010-12	32	128K x 8	1024K	120ns (12.5V) CMOS	5.25	4.75
39651	27C010-15	32	128K x 8	1024K	150ns (12.5V) CMOS	4.95	4.49
39669	27C010-20	32	128K x 8	1024K	200ns (12.5V) CMOS	4.75	4.39
156267	27C020-10	32	256K x 8	2048K	100ns (12.5V) CMOS	6.95	6.25
78852	27C020-12	32	256K x 8	2048K	120ns (12.5V) CMOS	6.59	5.95
65699	27C020-15	32	256K x 8	2048K	150ns (12.5V) CMOS	6.25	5.75
65681	27C020-20	32	256K x 8	2048K	200ns (12.5V) CMOS	5.95	5.39
127933	27C4096-12	40	256K x 16	4096K	120ns (12.5V) CMOS	6.95	6.25
111780	27C040-10	32	512K x 8	4096K	100ns (12.5V) CMOS	7.95	5.95
102293	27C040-12	32	512K x 8	4096K	120ns (12.5V) CMOS	8.49	7.49
85462	27C040-15	32	512K x 8	4096K	150ns (12.5V) CMOS	7.95	6.95
156275	27C080-10	32	1M x 8	8000K	100ns (12.5V) CMOS	16.95	15.95
140003	27C080-12	32	1M x 8	8000K	120ns (12.5V) CMOS	15.95	14.95
156283	27C160-10	42	2M x 8	16000K	100ns (12.5V) CMOS	23.95	21.95

See EPROM programmers on page 130 & 131

EPROM Accessories

Part No.	Product No.	Description	1	10
16820	EWC1	1.1" x .5" EPROM window covers (56 labels)	$1.95	$1.75
13864	CF2	Conductive foam (12" x 24" x .25") hard black	7.95	6.95
66042	DE1	UVP portable EPROM eraser, pg 131	64.95	58.95
15712	DE4	8-chip UV-EPROM eraser, pg 131	129.95	117.95

EEPROMs

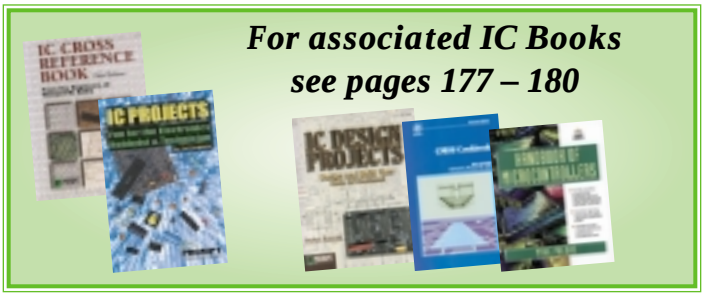
Dual-In-Line Package

Part No.	Product No.	Pins	Description		1	10
108839	24C02P	8	256 x 8	2048-bit serial (CMOS)	$.79	$.69
108847	24C04P	8	512 x 8	4096-bit serial (CMOS)	1.19	1.09
74691	28C16A-25	24	2K x 8	16K 250ns (5V) CMOS	3.95	3.59
40416	2817A-25	28	2K x 8	16K 250ns 5V read/write	6.95	6.25
74827	28C64A-25	28	8K x 8	64K 250ns (5V) CMOS	3.95	3.59
40475	2865A	28	8K x 8	64K 250ns 5V Rd/Wr (RDY/BSY on P1)	4.95	4.49
74843	28C256-15	28	32K x 8	256K 150ns CMOS	9.95	8.95
74878	28C256-25	28	32K x 8	256K 250ns CMOS	8.95	7.95
102058	93C46	8	64 x 16	1024-bit serial (5V)	.59	.49
108855	93C56	8	128 x 16	2048-bit serial (5V)	.69	.59

PROMs

Dual-In-Line Package

Part No.	Product No.	Pins	Description		1	10
27844	N82S23	16	32 x 8	256-bit PROM (OC) (27S18)	$5.95	$5.39
27764	N82S123	16	32 x 8	256-bit PROM tri-state (27S19)	5.95	5.39
27772	N82S126	16	256 x 4	1024-bit PROM (OC) (27S20)	6.95	6.25
27781	N82S129	16	256 x 4	1024-bit PROM tri-state (27S21)	7.95	6.95
27799	N82S131	16	512 x 4	2048-bit PROM tri-state (27S13)	6.95	6.25
27801	N82S137	18	1024 x 4	4096-bit PROM tri-state (27S33)	4.95	4.49
27810	N82S181	24	1024 x 8	8192-bit bipolar PROM tri-state	6.95	5.95
27836	N82S191	24	2048 x 8	16,384-bit PROM tri-state	6.95	6.25
48531	74S188	16	32 x 8	Open collector (27S18)	5.95	5.39
48696	74S287	16	256 x 4	Tri-state (TBP24S10N)	6.95	6.25
48717	74S288	16	32 x 8	Tri-state (27S19/TBP18S030N)	4.95	4.49
48805	74S387	16	256 x 4	Open collector (TBP24SA10N)	5.95	5.39
48864	74S472	20	512 x 8	Tri-state high speed (MB7124)	8.95	7.95
48910	74S571	16	512 x 4	Tri-state (27S13)	6.95	6.25
48928	74S573	18	1024 x 4	Tri-state (27S33)	4.95	4.49



For associated IC Books see pages 177 – 180

PALs and GALs

Dual-In-Line Package

Part No.	Product No.	Pins	Description	1	10
28020	PAL16L8	20	Octal 16-input AND-OR-INVERT gate array	$2.25	$1.75
28038	PAL16R8	20	Octal 16-input reg. AND-OR gate array	.69	.59
88399	16V8-10*	20	10ns (replaces PALs listed below) .3"W	2.25	1.95
37452	16V8-15*	20	15ns (replaces PALs listed below) .3"W	1.19	1.09
37461	16V8-25*	20	25ns (replaces PALs listed below) .3"W	1.09	.99
88292	20V8-10**	24	10ns (replaces PALs listed below) .3"W (slim line)	2.95	2.75
38658	20V8-15**	24	15ns (replaces PALs listed below) .3"W (slim line)	1.95	1.75
38666	20V8-25**	24	25ns (replaces PALs listed below) .3"W (slim line)	1.75	1.39
123801	22V10-10	24	10ns (replaces PALs listed below) .3"W (slim line)	4.95	4.49
39159	22V10-15	24	15ns (replaces PALs listed below) .3"W (slim line)	4.49	3.95
39167	22V10-25	24	25ns (replaces PALs listed below) .3"W (slim line)	3.49	3.25

GALs are electrically erasable PLDs that can be used in place of numerous PALs

* Replaces PALs: 10H8, 10L8, 10P8, 12H6, 12L6, 12P6, 14H4, 14L4, 14P4, 16H2, 16H8, 16L2, 16L8, 16P2, 16P8, 16R4, 16R6, 16R8, 16RP4, 16RP6,16RP8

** Replaces PALs: 14H8, 14L8, 14P8, 16H6, 16L6, 16P6, 18H4, 18L4, 18P4, 20H2, 20H8, 20L2, 20L8, 20P2, 20P8, 20R4, 20R6, 20R8, 20RP4, 20RP6, 20RP8

PEEL Devices (CMOS)

Dual-In-Line Package

Programmable Electrically Erasable Logic (PEEL) devices allow for superset replacement of over 40 standard 20-pin and 24-pin PLDs (PAL, GAL, EPLD, etc.). They also offer additional architectural features so more logic can be put into every design.

Part No.	Product No.	Pins	Description	1	10
105953	18CV8P-25	20	PLD superset 12 config. I/O pins (8) 25ns	$2.25	$1.95
105996	22CV10AP-25	24	PLD superset 4/12 config. I/O pins (10) 25ns	2.59	2.35

Static RAM

Dual-In-Line Package

Part No.	Product No.	Pins	Description		1	10
38738	2016-12	24	2K x 8	120ns (AM9128-12)	$1.49	$1.29
38746	2016-20	24	2K x 8	200ns (MB8128-20)	1.39	1.09
38931	2111-1	18	256 x 4	500ns (AM9111APC)	1.39	1.09
38957	2114N	18	1K x 4	450ns (9114BPC)	1.95	1.75
38973	2114N-2	18	1K x 4	200ns (9114EPC) (U214D20)	2.25	1.95
38981	2114N-2L	18	1K x 4	200ns low power	2.49	2.25
25911	MK48Z02B-15	24	2K x 8	150ns (16K) zero-power RAM	8.95	7.95
42198	5101	22	256 x 4	450ns (CMOS)	6.95	6.25
42788	6116P-1	24	2K x 8	100ns (16KB) CMOS	1.69	1.49
42796	6116P-2	24	2K x 8	120ns (16KB) CMOS	1.59	1.39
42809	6116P-3	24	2K x 8	150ns (16KB) CMOS	1.49	1.29
42737	6116LP-1	24	2K x 8	100ns (16KB) LP CMOS	2.19	1.95
42745	6116LP-2	24	2K x 8	120ns (16KB) LP CMOS	2.09	1.89
42753	6116LP-3	24	2K x 8	150ns (16KB) LP CMOS	1.95	1.75
42921	6264P-10	28	8K x 8	100ns (64KB) CMOS	2.39	2.19
42930	6264P-12	28	8K x 8	120ns (64KB) CMOS	2.29	2.09
85121	6264LP-70	28	8K x 8	70ns (64KB) LP CMOS	2.95	2.75
42884	6264LP-10	28	8K x 8	100ns (64KB) LP CMOS	2.75	2.49
42892	6264LP-12	28	8K x 8	120ns (64KB) LP CMOS	2.49	2.25
43238	6514	18	1K x 4	350ns CMOS (M58981P)	2.95	2.75
41970	43256-10L	28	32K x 8	100ns low power (NEC)	4.95	4.49
41988	43256-12L	28	32K x 8	120ns low power (NEC)	4.49	3.95
82472	62256LP-70	28	32K x 8	70ns low power CMOS	4.95	4.49
42833	62256LP-10	28	32K x 8	100ns low power CMOS	3.95	3.59
42850	62256LP-12	28	32K x 8	120ns low power CMOS	3.75	3.49
172101	6285128LP-50	32	128K x 8	50ns low power CMOS	9.95	8.95
131810	628128LP-70	32	128K x 8	70ns low power CMOS	7.95	6.95
103982	628128LP-85	32	128K x 8	85ns low power CMOS	7.49	6.49
157358	628512LP-70	32	512K x 8	70ns low power CMOS	17.95	15.95

Fast RAMs

Dual-In-Line Package

Part No.	Product No.	Pins	Description		Price
75037	ATT7C199P-15	28	32K x 8	15ns high speed CMOS (.3"W)	$2.75

Flash Memory

Dual-In-Line Package

Part No.	Product No.	Pins	Description		Price
185210	28F256-25	32	32K x 8	250ns (12V) CMOS	$4.95
74771	28F010-15	32	128K x 8	150ns (12V) CMOS	6.95
74835	28F020-15	32	256K x 8	150ns (12V) CMOS	6.95

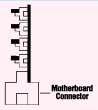
Call for pricing on quantities over 100 – we carry major manufacturers.

Dynamic and Video RAMs

Part No.	Product No.	Pins	Description	Price
41339	4116-15	16	16K x 1 150ns (MM5290J-1R)	$.99
191370	HM4816-4	16	16K x 1 120ns	.89
41662	4164-150	16	64K x 1 150ns (MCM6665-15)	.49
41398	41256-120	16	256K x 1 120ns (MB81256-12)	.75
41427	41256-150	16	256K x 1 150ns (P21256-15)	.55
41574	41464-10	18	64K x 4 100ns (HY53C464S-10)	1.49
41582	41464-12	18	64K x 4 120ns (MB81464-12)	.75
172945	41464-15	18	64K x 4 150ns	.49
42219	511000P-10	18	1M x 1 100ns (M5M4C1000-10)	1.95
105460	514256P-60	20	256K x 4 60ns (HY514256P-60)	1.99
93374	514256P-70	20	256K x 4 70ns (TC514256P-70)	2.25
42315	514256P-80	20	256K x 4 80ns (UPD424256-80)	2.49
128688	HM514260	SOJ	256K x 16 70ns	3.49

SIMM to SIMM Converter Card

- Converts four 30-pin SIMMs to one 72-pin SIMM
- Memory size and speed must match
- Easy-release locking clips





Part No.	Product No.	Description	1	10
157500	30/72A	Four 30-pin SIMMs to 72-pin SIMM	$7.19	$6.47

Memory Modules

Part No.	Product No.	Pins	Description	Price
189501	256KX32-60	72	256K x 32 60ns SIMM module (1MB)	$3.95
189421	256KX32-70	72	256K x 32 70ns SIMM module (1MB)	2.95
130729	JEEDO7208	72	2M x 32 60ns SIMM EDO module (8MB)	11.95
130711	JEEDO7216	72	4M x 32 60ns SIMM EDO module (16MB)	22.95
148443	JEEDO7232	72	8M x 32 60ns SIMM EDO module (32MB)	39.95
189413	256KX36-60	72	256K x 36 60ns SIMM module (1MB)	3.95
189430	256KX36-70	72	256K x 36 70ns SIMM module (1MB)	2.95
75133	P361000-XX-6	72	1M x 36 60ns SIMM module (4MB)	12.95
75096	P362000-XX-6	72	2M x 36 60ns SIMM module (8MB)	24.95
75184	P364000-XX-6	72	4M x 36 60ns SIMM module (16MB)	44.95
75168	P364000-XX-7	72	4M x 36 70ns SIMM module (16MB)	43.95
148460	8MBX36-60	72	8M x 36 60ns SIMM module (32MB)	79.95
148398	4MBX64SDRAM	168	4M x 64 10ns Synch. DRAM DIMM (32MB)	16.95
148401	8MBX64SDRAM	168	8M x 64 10ns Synch. DRAM DIMM (64MB)	29.95
148419	16MBX64SDRAM	168	16M x 64 10ns Synch. DRAM DIMM (128MB)	49.95
41751	421000A9B-70	30	1M x 9 70ns SIMM module (3 chips)	3.95
53698	94000S-60	30	4M x 9 60ns SIMM module (9 chips)	14.95
53701	94000S-70	30	4M x 9 70ns SIMM module (9 chips)	13.95
53719	94000S-80	30	4M x 9 80ns SIMM module	12.95
148478	16MBX9-60	30	16M x 9 60ns SIMM module (9 chips)	29.95

CPUs/MPUs

Part No.	Product No.	Pins	MHz	Description	1	10
189261	A80486SX-33	234/PGA	33	Overdrive processor	$15.95	$13.95
135571	ST486DX2-66	168/PGA	33	486 speed doubler CPU (SGS)	16.25	14.65
118421	80486DX2-66	168/PGA	33	486 speed doubler CPU (Intel)	19.95	17.95
189270	FC80486DX4-75	168/PGA	75	486DX4 CPU (Intel)	19.95	17.95
151600	AM486DX4-100	168/PGA	100	Am486DX4 CPU (AMD) (pulls)	24.95	21.95
125495	Pentium® 100	296/PGA	100	Pentium® MPU	29.95	26.95
130825	Pentium® 120	296/PGA	120	Pentium® MPU	25.19	22.65
130833	Pentium® 133	296/PGA	133	Pentium® MPU	29.95	26.95
189288	Pentium® 150	296/PGA	150	Pentium® MPU	34.95	29.95
130841	Pentium® 166	296/PGA	166	Pentium® MPU	49.95	44.95
189296	Pentium® 200	387/PGA	200	Pentium® MPU	49.95	44.95
140054	Pent. MMX® 200	376/PGA	200	Pentium MMX® MPU	49.95	44.95
150501	Pent. MMX® 233	376/PGA	233	Pentium MMX® MPU	59.95	54.95
190060	Pentium® II 233	—	233	Pentium® II MPU w/ heat sink	79.95	71.95
151651	Pentium® II 300	—	300	Pentium® II MPU	99.95	89.95
183100	Pentium® II 400	—	400	Pentium® II MPU	109.95	99.95
183118	Pentium® III 600	—	600	Pentium® III MPU	179.95	169.95
192735	A0700MPR24B	—	700	Athlon 700 (AMD)	119.95	107.95
183134	Pentium® III 733	—	733	Pentium® III MPU	249.95	224.95
192751	A0750MPR24B	—	750	Athlon 750 (AMD)	129.95	116.95
189253	A0900AMT3B	—	900	Athlon 900 (AMD)	239.95	219.95

Math Coprocessors

Part No.	Product No.	Pins	Description	1	10
51941	80387-33	68PGA	33MHz math coprocessors	$24.95	$21.95
76531	80387-25SX	68PLCC	25MHz math coprocessors	27.95	24.95

Z80 Series Microprocessors

Dual-In-Line Package



Part No.	Product No.	Pins	MHz	Description	1	10
35561	Z80	40	2.5	CPU (MK3880N/780C)	$1.39	$1.19
35570	Z80-CTC	28	2.5	Counter timer circuit (MK3882)	.69	.61
35588	Z80-PIO	40	2.5	Parallel I/O interface controller	.45	.40
35596	Z80A	40	4	CPU (MK3880N-4/780C-1)	1.75	1.55
35609	Z80A-CTC	28	4	Counter timer circuit (MK3882-4)	2.19	1.95
35625	Z80A-DART	40	4	Dual asynchronous rec./transmitter	2.95	2.75
35641	Z80A-PIO	40	4	Parallel I/O interf. contr. (MK3881-4)	1.49	1.29
35668	Z80A-SIO/0	40	4	Serial I/O (TxCB & RxCB bond.) MK3884-4	2.19	1.95
35705	Z80B	40	6	CPU (MK3880N-6)	2.25	1.95
35781	Z84C00-4	40	4	CPU (Z84C0004PEC) CMOS	4.25	3.75
35799	Z8530	40	2	Serial communications controller	2.49	1.75
185332	Z8681	40	2	ROMless MCU	1.25	.99

V20 Chips

Dual-In-Line Package



Part No.	Product No.	Pins	MHz	Description	1	10
34340	UPD70108-5	40	5	V20 chip (replaces the 8088)	$2.95	$2.49
34358	UPD70108-8	40	8	V20 chip (replaces the 8088-2)	9.95	8.95

5000 Series and Clock Chips

Dual-In-Line Package



Part No.	Product No.	Pins	Description	1	10
32803	TCM5089N	16	Integrated tone dialer chip	$4.95	$4.49
26091	MM5321N	16	TV camera synchronous generator	5.95	5.39
26083	MM5314N	24	6-digit LED/incandes. readout clock chip	19.95	17.95
26171	MM5450N	40	34-segment LED display driver	4.95	4.49
26201	MM58167AN	24	Microprocessor real time clock	4.95	4.49
29591	RTC58321B	16	Real time clock module (see page 15)	7.45	6.45
95530	RTC72421B	18	Real time clock module (see page 15)	6.95	5.95

6800 Series and Clock Chips

Dual-In-Line Package



Part No.	Product No.	Pins	Description	1	10
43481	6800	40	8-bit MCU	$6.95	$6.25
43502	6802	40	8-bit MPU with clock and RAM (1MHz)	7.95	6.95
43529	6803	40	8-bit MCU with 128K RAM	6.95	6.25
43537	6808	40	8-bit MPU with clock	6.95	6.25
43545	6809E	40	MPU with external clock (1MHz)	3.95	3.59
43561	6810	24	128x8 static RAM (1MHz)	1.19	1.09
43596	6821	40	Peripheral interface adapter (1MHz)	3.95	3.59
43414	68B21	40	Peripheral interface adapter (2MHz)	4.95	4.49
43617	6840	28	Programmable timer (1MHz)	2.49	1.95
43633	6850	24	Asynch. comm. int. adapter (ACIA)	1.95	1.75
25304	MC68000L8	64	MPU 16-bit (8MHz)	8.95	7.95
25291	MC68000L10	64	MPU 16-bit (10MHz)	12.95	10.95
39642	MC68661PC	28	Enhanced prog. comm. interf. (2661-3) 5.0688MHz	.69	.59
25355	MC68701	40	8-bit EPROM MPU w/ 128B RAM & I/O	15.95	13.95
25363	MC68705P3S	28	8-bit EPROM MPU w/ 112B RAM & I/O	24.95	22.95
25371	MC68705U3S	40	8-bit EPROM MPU w/ 112B RAM & I/O	24.95	22.95
116960	MC68HC11A1P	48	8-bit micro control. w/ A/D conv. (256 bytes RAM)	19.95	17.95
191863	MC68HC11E1CP2	48	8-bit micro control. w/ A/D conv. (512 bytes RAM)	15.95	13.95
108919	MC68HC705C8P	40	8-bit HCMOS MCU, 8K OTPROM, 24 I/O lines	9.95	8.95
132484	MC68HC705C8S	40	8-bit HCMOS MCU, 8K bytes, EPROM	34.95	31.95
108927	MC68HC705K1P	16	8-bit HCMOS MCU, 504 bytes, OTPROM, 10 I/O, timer	5.95	5.39

Pentium® II Integrated Retention Modules

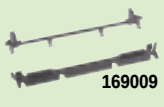
168997: Pentium® II Retention Module

- Compatible with Pentium® processors (P/N 151651, pg 13)

169009: Pentium® II Heat Sink Support Base w/ plastic fasteners

- Compatible with Pentium® heat sinks (P/N 151298, pg 88)





Part No.	Description	1	10	25
168997	Pentium® II retention module	$1.49	$1.35	$1.19
169009	Pentium® II heat sink support	1.49	1.35	1.19

We can special order any ICs – 100 piece minimum

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

Call for pricing on quantities over 100 – we carry major manufacturers.

8000 Series Microprocessors

Dual-In-Line Package

Part No.	Product No.	Pins	Description	1	10
51844	8031	40	CPU with 128 x 8 RAM and I/O	$2.95	$2.75
51676	80C31	40	CPU with 128 x 8 RAM and I/O (CMOS)	2.95	2.75
102197	8032	40	8-bit MCU 256 x 8 RAM	3.95	3.59
108804	80C32-1	40	8-bit MCU 256 x 8 RAM (CMOS)	3.95	3.59
51861	8035	40	MPU 8-bit	3.95	3.59
51959	8039	40	CPU single chip 8-bit (128 bytes RAM)	3.95	3.59
51692	80C39	40	CPU single chip 8-bit (128 bytes RAM) CMOS	4.49	3.95
51983	8049*	40	CPU single chip 8-bit (can use for 8039)	1.95	1.75
51991	8051AP**	40	MCU with 128 x 8 RAM	4.95	4.49
52003	8052AH**	40	CPU 8-bit 256 bytes RAM, timer/counter and I/O	6.95	6.25
125647	80C52BASIC	40	CPU 8-bit CMOS with basic interpreter	19.95	17.95
52046	8080A	40	CPU 8-bit N-channel (1MHz)	3.95	3.59
52062	8085A	40	CPU 8-bit N-channel (3MHz)	4.49	3.95
52071	8085A-2	40	CPU 8-bit N-channel (5MHz)	4.95	4.49
51705	80C85	40	CPU 8-bit N-channel (3MHz)(CMOS)	5.95	5.39
52100	8086-2	40	CPU 16-bit (8MHz)	1.95	1.75
52142	8088	40	CPU 16-bit (8-bit data bus) 5MHz	2.49	1.95
52169	8088-2	40	CPU 16-bit (8-bit data bus) 8MHz	5.95	5.39
52290	8155	40	HMOS RAM I/O port/timer (3MHz)	4.49	3.75
52302	8155-2	40	HMOS RAM I/O port/timer (5MHz)	5.95	5.39
52193	81C55	40	256x8 RAM I/O port/timer (CMOS) 3MHz	3.95	3.25
52329	8156	40	RAM with I/O port and timer	9.95	8.95
52468	8212	24	8-bit input/output (74S412)	5.95	5.39
52484	8216	16	Bi-directional bus driver (non-invert.)	3.95	3.59
52492	8224	16	Clock generator/driver	2.95	2.49
52513	8228	28	System contr./bus driver (74S428)	1.95	1.75
52581	8243	24	I/O expander for 48 series	4.95	4.25
52610	8250A	40	Asynchronous comm. element	4.95	4.49
52628	8250B	40	ACE (IBM PC/XT software compat.)	2.45	1.95
52644	8251	28	Prog. comm. I/O (USART)	2.95	2.25
52652	8251A	28	Prog. comm. interface (USART)	3.49	3.25
52370	82C51A	28	Prog. comm. interface (USART) CMOS	3.95	3.59
52679	8253	24	Prog. interval timer	3.95	3.59
52687	8253-5	24	Prog. interval timer (2MHz)	4.49	3.95
52388	82C53-5	24	Prog. interval timer (CMOS) 2MHz	4.95	4.49
180427	82C53-5SSOP	32	Prog. interval timer (CMOS) 2MHz (PLCC)	2.99	2.69
52708	8254	24	Prog. interval timer (UPD71054)	3.95	3.59
52716	8254-2	24	Prog. interval timer (10MHz)	5.95	5.39
52396	82C54	24	Prog. interval timer (CMOS)	3.95	3.59
52409	82C54-2	24	Prog. interval timer (CMOS) 10MHz	3.95	3.59
52724	8255	40	Prog. periph. I/O (PPI) 71055 (2MHz)	3.95	3.59
52732	8255A-5	40	Prog. periph. I/O (PPI) 5MHz	4.95	4.49
52417	82C55A	40	Prog. periph. I/O (PPI) CMOS	3.95	3.59
52425	82C55A-5	40	Prog. periph. I/O (PPI) CMOS (5MHz)	3.95	3.59
52759	8256	40	Multif. universal asynch. rec./trans.	21.95	19.95
52775	8259	28	Prog. interrupt controller (UPD71059)	1.75	1.55
52783	8259-5	28	Prog. interrupt controller (8259A-2)	1.95	1.75
52821	8275	40	Prog. CRT controller	12.95	10.95
52839	8279	40	Prog. keyboard/display interface	11.95	10.95
52847	8279-5	40	Prog. keyboard/display interface (5MHz)	12.95	11.95
52855	8282	20	Octal latch (UPD71082)	5.95	5.39
52863	8283	20	Octal latch inverts input data at outputs	1.29	1.16
52871	8284A	18	Clock gen. and driver (UPD71084)	3.95	3.59
52898	8286	20	Octal bus transceiver (UPD71086)	3.95	3.59
52901	8287	20	Octal bus transceiver (inverted)	9.95	8.95
52919	8288	20	Bus controller (UPD71088) 82C88-2	1.95	1.75
52951	8564	48	VIC (video interface chip for C128)	.19	.14
53006	8741	40	8-bit univ. peripheral interface (EPROM)	6.95	5.95
53014	8742	40	8-bit univ. peripheral interface	6.95	6.25
53022	8748	40	CPU 8-bit, EPROM, RAM and I/O (21V)	12.95	11.95
53031	8748H	40	CPU 8-bit, EPROM, RAM and I/O HMOS (21V)	13.95	11.95
53057	8749H	40	MPU 8-bit (EPROM version 8049)	19.95	17.95
53073	8751	40	CPU w/ 4Kx8 EPROM & 128x8 RAM (3.5-8MHz)	18.95	15.95
53081	8751H	40	CPU w/ 4Kx8 EPROM & 128x8 RAM (1.2-12MHz)	24.95	21.95
52978	87C51	40	CPU w/ 4Kx8 EPROM & 128x8 RAM(3.5-12MHz)CMOS	19.95	17.95
53090	8755	40	16K EPROM with I/O	7.95	5.95

*** 8049 (ROM not available for use) Tie pin 7 high to bypass the internal ROM (to convert 8049 to 8039) ** Tie pin 31 low to bypass the internal ROM**

9000 Series Microprocessors

Dual-In-Line Package

Part No.	Product No.	Pins	Description	1	10
53663	9368	16	FND 70 driver/latch	$4.49	$3.95
10567	AM9513APC	40	System timing controller	39.95	32.95

Analog Devices

Dual-In-Line Package

Part No.	Product No.	Pins	Description	1	10
115158	AD558JN	16	Microprocessor compat. 8-bit DAC	$17.95	$15.95
115174	AD620AN	8	Low cost instrument amplifier	17.95	15.95
115182	AD633JN	8	Low cost analog multiplier	12.95	11.95
115318	OP27GP	8	Low noise prec. op amp (-40˚C to 80˚C)	1.95	1.75

Dallas Semiconductor

Dual-In-Line Package

Part No.	Product No.	Pins	Description	1	10
114198	DS1210	8	Nonvolatile controller chip	$3.95	$3.59
114219	DS1213C	28	SmartSocket 64K/256K	13.95	12.95
133410	DS1216C	28	Smartwatch/RAM 64K/256K	22.95	20.95
114260	DS1220Y-150	24	16K nonvol. SRAM 10%pwr, 4.25V WP	9.95	8.95
114278	DS1225AB-150	28	64K nonvol. SRAM 5%pwr, 4.62V WP	12.95	10.95
114286	DS1225AD-150	28	64K nonvol. SRAM 10%pwr, 4.37V WP	11.95	10.95
157307	DS1225D-100	28	64K nonvol. SRAM 10%pwr, 4.5V WP	10.95	9.95
114307	DS1225Y-200	28	64K nonvol. SRAM 10%pwr, 4.25V WP	13.95	12.95
177113	DS1230Y-100	28	256K nonvol. SRAM 10%pwr, 4.37V WP	17.95	12.95
114323	DS1230Y-150	28	256K nonvol. SRAM 10%pwr, 4.37V WP	17.95	15.95
114331	DS1232	8	Micromonitor chip	2.75	2.55
133444	DS1286	28	Watchdog timekeeper (50-Byte RAM)	16.95	14.95
76646	DS1287	24	Real time clock with RAM (MC146818A)	5.95	5.39
114366	DS1287A	24	Real time clock with RAM & clear	5.69	5.10
176778	DS1302	8	Trickle charge time keeping IC	2.49	2.25
114374	DS1387	24	RAMified real time clock 4Kx8	9.95	8.95
114382	DS1620	8	Digital thermometer and thermostat	5.49	4.95
133452	DS12887	24	Real time clock chip	6.95	6.25
114403	DS80C320-MCG	40	High speed micro 25MHz	11.95	10.95

CMOS PIC Microcontrollers

Dual-In-Line Package

Part No.	Product No.	Pins	Conf.	Range	EPROM Bytes	RAM Bytes	I/O Lines	1	10	100
145040	PIC12C508-04/P	8	OTP	4MHz	512 x 12	25B	5	$1.75	$1.49	$1.25
145058	PIC12C509/JW	8	EPROM	4MHz	1K x 12	41B	5	12.95	11.95	10.95
144258	PIC12C509-04/P	8	OTP	4MHz	1K x 12	41B	5	1.95	1.75	1.49
193455	PIC12C671-04/P	8	EPROM	4MHz	1K x 14	128B	6	2.79	2.51	2.25
193463	PIC12C672-04/P	8	OTP	4MHz	2K x 14	128B	6	2.79	2.51	2.25
128338	PIC16C54A-04/P	18	OTP	4MHz	512 x 12	25B	12	2.95	2.75	2.49
134172	PIC16C56-RC/P	18	OTP	20MHz	1K x 12	25B	12	3.75	3.49	3.25
134181	PIC16C57/JW	28	EPROM	20MHz	2K x 12	72B	20	13.95	12.95	11.95
193341	PIC16C57C-04/P	28	OTP	4MHz	2K x 12	72B	20	3.25	2.92	2.63
193375	PIC16C58B-04/P	18	OTP	4MHz	2K x 12	73B	12	2.69	2.19	1.95
193383	PIC16C622A-04/P	18	OTP	4MHz	2K x 14	128B	13	3.09	2.78	2.50
193439	PIC16F627-20/P	18	Flash	20MHz	1K x 14	224B	16	3.39	3.05	2.74
193447	PIC16F628-20/P	18	Flash	20MHz	2K x 14	224B	16	3.25	2.92	2.63
193324	PIC16C63A-20/SP	28	OTP	20MHz	4K x 14	192B	22	5.75	5.20	4.68
193359	PIC16C711-04/P	18	OTP	4MHz	1K x 14	68B	13	4.19	3.75	3.39
193391	PIC16F73-I/SP	28	Flash	20MHz	4K x 13	192B	5	5.29	4.75	4.25
145091	PIC16C74A/JW	40	EPROM	20MHz	14K x 14	192B	33	20.95	18.95	16.95
193404	PIC16F74-I/P	40	Flash	20MHz	4K x 14	192B	8	6.49	5.84	5.25
193412	PIC16F76-I/P	28	Flash	20MHz	8K x 14	368B	5	7.59	6.83	6.15
193421	PIC16F77-I/P	40	Flash	20MHz	8K x 14	368B	8	8.19	7.37	6.63
145111	PIC16F84-04/P	18	Flash	4MHz	1K x 14	68B	13	5.95	5.49	4.95
145120	PIC16F84-10/P	18	Flash	10MHz	1K x 14	68B	13	7.95	7.19	6.49
193332	PIC16F84A-20/P	18	Flash	20MHz	1K x 14	68B	13	5.95	5.35	4.82
176882	PIC16F877-20/P	40	Flash	20MHz	256 x 8	368B	33	9.49	8.49	7.49
193367	PIC16F876-20/SP	28	Flash	20MHz	256 x 8	368B	22	8.19	7.37	6.63

Encoders/Decoders for Remote Control

A series of CMOS LSIs for remote control system applications.

Part No.	Product No.	Pins	Description	1	10	100
123730	HT12E	18	Encoder 12-bit	$1.69	$1.49	$1.25
123748	HT12D	18	Decoder 8-bit address / 4-bit data	1.69	1.49	1.25
126594	HT640	24	Encoder 10-bit address / 8-bit address/data	2.95	2.75	2.49
126607	HT648L	24	Decoder 10-bit address / 8-bit latch data	2.95	2.75	2.49

Call for pricing on quantities over 100 – we carry major manufacturers.

80C52-BASIC Microcontroller

The 80C52-BASIC chip is a custom-masked 80C52 microcontroller with a full-featured 8K-byte ROM-resident BASIC-52 interpreter.

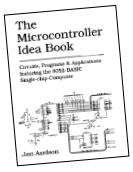


Hardware: • On-chip oscillator and clock circuit
• Operates DC to 12MHz • 256 x 8-bit RAM
Software: • Full BASIC interpreter in ROM on a single chip
• "Stand-alone" software development
• Interrupts can be handled by BASIC or Assembly Language

Part No.	Product No.	Description	1	10	50
125647	80C52BASIC	CPU 8-bit CMOS w/ BASIC interpreter	$19.95	$17.95	$15.95

The Microcontroller Idea Book (1997)

The Idea Book introduces low end embedded microcontroller design. It provides practical designs for use with data loggers, controllers and small computer applications.



126375: • Circuits, programs and applications featuring the 8052-BASIC single chip computer • 277 pages
• Size: 7.8" x 10.5" • Weight: 1.6 lbs.
126295: Basic 52 Circuit Examples on 3.5" disk
• Software runs on MS-DOS • Weight: 1.0 lb.

For more PIC Books, see page 179

Part No.	Product No.	Description	1	10	50
126375	8052BASIC	Microcontroller Idea Book	$31.95	$28.95	$25.95
126295	SFT52	BASIC-52 Circuit Examples	6.95	5.95	5.49

Voice Chips

Dual-In-Line Package



Single-Chip Voice Record/Playback Devices

10 to 240 Second Durations (28-pin DIP)



107334

- Easy-to-use single-chip voice recording and playback
- Manual switch or microprocessor controllable
- Directly cascadable for longer durations
- Fully addressable to handle multiple messages
- Zero-power message storage – eliminates battery backup circuits
- Single voltage operation: +5V (4.5V to 5.5V operating range)
- Automatic power-down (push-button mode) • On-chip clock source
- Playback can be edge or level-activated • 100k record cycles (typical)
- P/N 141647: 3VDC @ 30mA power • 1 µA standby current (typical)
- 100-year message retention (typical) • On-chip automatic gain control (AGC)

Part No.	Product No.	Description	1	10	50
141671	ISD1110P	Voice record/playback (10 sec.)	$4.95	$4.49	$3.95
107334	ISD1420P	Voice record/playback (20 sec.)	5.95	5.39	4.95
120643	ISD2560	Voice record/playback (60 sec.)	9.95	8.95	7.95
120660	ISD2590	Voice record/playback (90 sec.)	8.95	7.95	6.95
141655	ISD25120P	Voice record/playback (120 sec.)	9.95	8.95	7.95
141647	ISD33240P	Voice record/playback (240 sec.)	12.95	11.95	10.95

E-Lab Digital Interface ICs

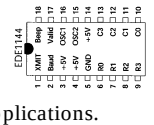
Stepper Motor Drivers

Designed to interface a logic level input byte to a stepper motor.

Part No.	Product No.	Pins	Description	1	10	50
141532	EDE1200	18	Unipolar stepper motor driver	$8.95	$7.95	$6.95
157526	EDE1204	18	Bipolar stepper motor driver	8.95	7.95	6.95

Keypad Encoder

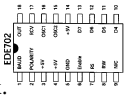
Designed to interface a matrix type 4 row x 4 column (16 key or less) keypad to a microcontroller or other host processor. A one wire serial or 4 wire parallel interface returns the key press data and can be used in conjunction with a "data valid" signal for polled or interrupt-driven applications.



Part No.	Product No.	Pins	Description	1	10	50
171969	EDE1144	18	Keypad Encoder	$6.95	$6.25	$5.59

Serial LCD Interface

Provides a cost-effective LCD control solution for a wide variety of embedded designs. Allows nearly any-text based LCD module to be controlled via a simple one-wire data link.



Part No.	Product No.	Pins	Description	1	10	50
171951	EDE702	18	Serial LCD Interface	$8.95	$7.95	$6.95

EPSON Real Time Clock Modules

Dual-In-Line Package



RTC58321B Specifications



- Frequency stability: ±50ppm • Built-in 32.768kHz quartz crystal
- Addressable counter start, stop, and reset function
- 12 or 24-hour format • Automatic leap year setting
- Microprocessor compatible 4-bit data bus • 16-pin Dip package

Part No.	Product No.	Description	1	10	100
29591	RTC58321B	16-pin clock module	$7.45	$6.45	$5.45

RTC72421B Specifications



- Frequency stability: ±50ppm
- Built-in quartz crystal makes board design easy
- Direct bus-compatibility (120 nsec access time) • Interrupt masking
- 30 seconds error adjustment function • 18-pin Dip package

Part No.	Product No.	Description	1	10	100
95530	RTC72421B	18-pin clock module	$6.95	$5.95	$5.59

Princeton Technology Controller ICs

Infrared remote control transmitter utilizing CMOS technology, capable of 18 functions and a total of 75 commands. Great for TV and VCR control applications.

Part No.	Product No.	Pins	Description	1	10	100
173041	PT2248	16	IR remote control transmitter	$1.95	$1.75	$1.49

Infrared remote control receiver utilizing CMOS technology, capable of controlling 18 functions. A remote control system can be constructed using this chip and the PT2248 (P / N 173041). Code detection circuit and digital filtering prevent interference from various types of IR devices. Great for audio equipment, TV and VCR applications.

Part No.	Product No.	Pins	Description	1	10	100
173059	PT2250A	24	IR remote control receiver	$1.95	$1.75	$1.49

Volume controller IC utilizing CMOS technology specially designed for use in audio equipment. It has 2 built-in channels making it ideally suitable for mono and stereo sound applications.

Part No.	Product No.	Pins	Description	1	10	100
173024	PT2256	16	Electronic volume controller	$1.39	$1.19	$.99

Functionally compatible with M50195P. Input signal is converted to digital signal with A-D conversion and stored in memory. After a certain delay time, the digital signal is read out from memory and converted back into analog signal using the D-A conversion.

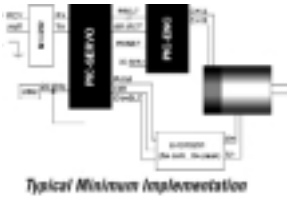
Part No.	Product No.	Pins	Description	1	10	100
173032	PT2395	40	Enhanced digital echo	$3.95	$3.75	$3.49

A high performance electronic fan controller LSI. Speed control, off-timer, rhythm wind, sleep mode, head swing and / or light control are all built into a single chip.

Part No.	Product No.	Pins	Description	1	10	100
173016	PT2128A-C81	24	Remote fan controller	$1.09	$.99	$.89

KAE Servo and Stepper Motor Controllers

Controllers operate from standard 8-bit serial interface (RS232 or RS485). Using RS485, any mix of up to 32 controllers may be operated from a single serial port. Complete documentation, Windows® example software.

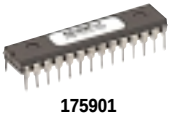


146472: PIC-SERVO Motion Control Chipset for DC Motors

146472

- PIC servo control for DC motors with digital encoders
- 32-bit position, velocity, and acceleration resolution
- PWM and direction outputs connect to servo amplifier
- Two chip set (PIC-SERVO 28-pin and PIC-ENC 18-pin)

175901: PIC-STEP Motion Control Chip for Stepper Motors



175901

- Step rates up to 50,000 steps per second – suitable for use with microstepping drivers
- Trapezoidal positioning and profiled velocity modes
- Programmable current limits automatically switch between holding and running currents • Programmable accelerations and minimum step rates

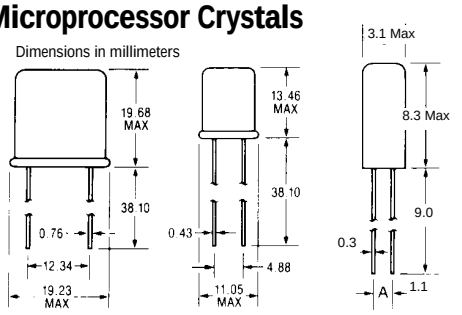
Part No.	Description	Pins	1	10	50
146472	PIC-SERVO chip set, 0.3" DIP	28/18	$34.95	$31.49	$27.95
175901	PIC-STEP chip, 0.3" DIP	28	24.95	23.95	22.95

For Digital Voice & Video Text Display Modules – see page 167

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

Microprocessor Crystals

Dimensions in millimeters

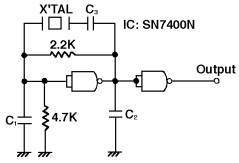


HC33/U Case | HC49/U (HC18/U) Case | TF Case

- Frequency calibration tolerance: ± 50ppm @ 25°C
- Operating temperature: -10°C to +60°C
- Drive level: 4.0 mW maximum
- Frequency stability tolerance: ±50 ppm from -10°C to +60°C
- Shunt capacitance: 7pF maximum

SALE

Application Reference (4~14MHz) (Parallel Resonance)



C1: 150-470 pF
C2: 220-820 pF
C3: Match crystal impedance

HC33/U CASE

Part Number	Product Number	Frequency (MHz)	Impedance	Microprocessor	Pricing 1	10	100	1000
14349	CY1	1.0	13pF	MC6800/6808/6809E/6500 series	$4.95	$4.49	$3.95	$3.49
14357	CY1.84	1.8432	Series	MC14411/CDP1802/CDP1804	.69	.59	.55	.49

HC49/U (HC18/U) CASE

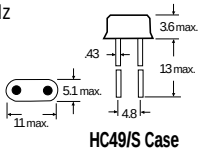
Part Number	Product Number	Frequency (MHz)	Impedance	Microprocessor	Pricing 1	10	100	1000
102613	CY1.843	1.8432	18pF	MC14411/MC6802	$.99	$.72	$.51	$.39
102621	CY2.0	2.0	Series	2650/F-8	1.49	1.25	.99	.75
101274	CY2.457	2.4576	32pF	CDP1702/1802C/1804/1804C	.89	.79	.69	.59
14525	CY3.27	3.2768	18pF	IM6100C/CDP1802/CDP1804	.89	.79	.69	.59
14533	CY3.57	3.579545	18pF	MC6801,2,3/MM5369	.89	.79	.69	.59
14568	CY3.68	3.6864	18pF	8748/8035-8	.89	.79	.69	.59
14592	CY4	4.0	20pF	MCS-40/MC6802,8,9/CDP1802	.89	.79	.69	.59
14621	CY4.91	4.9152	Series	CDP1802C/1804/1804C	.89	.79	.69	.59
14664	CY5.06	5.0688	Series	COM5016/5016T/5031	.25	.20	.18	.16
14681	CY6	6.0	18pF	MCS-48/IM8048	.79	.69	.55	.45
14699	CY6.14	6.144	30pF	MCS-85/8085	.79	.69	.55	.45
14710	CY7.37	7.3728	30pF	8051/8031	.89	.79	.69	.59
14728	CY8	8.0	Series	IM6100A/MC68B09	.79	.69	.49	.39
14381	CY10	10.0	Series	MCS-85/8085A-2	.79	.69	.59	.49
120061	CY11.05	11.0592	Series	General purpose	.89	.79	.69	.59
14402	CY12	12.0	Series	MCS-86/8086/8284/8202	.89	.79	.65	.49
14437	CY14.31	14.31818	Series	8080/8224/general purpose	.34	.31	.28	.25
14453	CY16	16.0	Series	8080/8224/general purpose	.99	.89	.79	.69
14517	CY20	20.0	Series	MCS-80/8080A/8224	.79	.69	.59	.39

TF CASE

Part Number	Product Number	Frequency (MHz)	Impedance	Microprocessor	Pricing 1	10	100	1000
14584	CY32.76	32.768kHz	10.5pF	Tuning fork	$.89	$.79	$.69	$.59

Low Profile Microprocessor Crystals

- Frequency range: 3.5 to 70.0MHz
- Operating temp.: -10˚C to +60˚C
- Drive level: 0.5mW (fundamental frequency)
- Aging: ±5ppm/year maximum
- Frequency stability tolerance: ±50ppm



HC49/S Case

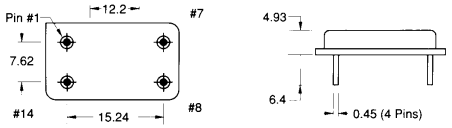
HC49/S CASE (Low Profile)

Part Number	Product Number	Frequency (MHz)	Imped.	Max. Resist.	Microprocessor	Pricing 1	10	100	1000
137816	CY3.57LP	3.579545	17pF	150Ω	MC6801, 2, 3/MM5369	$1.05	$.85	$.75	$.65
137832	CY4LP	4.000	17pF	120Ω	MCS-40/MC6802, 8, 9/CDP1802	1.05	.85	.75	.65
137859	CY8LP	8.000	Series	60Ω	IM6100A/MC68B09	1.05	.85	.75	.65
137875	CY11.05LP	11.0592	Series	50Ω	General purpose	1.05	.85	.75	.65
137891	CY16LP	16.000	Series	40Ω	8080/8224/general purpose	1.05	.85	.75	.65

TTL Crystal Clock Oscillators (full can)



Dimensions in millimeters

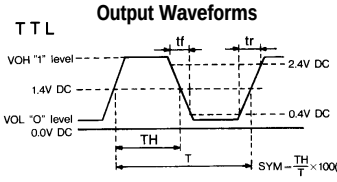


Specifications

- Input voltage: +5VDC, ±0.5VDC
- OSC series oscillators fit into a standard 14-pin DIP socket PN 37209, pg 50
- Frequency stability ±100ppm
- Operating temperature: 0°C to 70°C

Pin #	Function
1*	N/C
7	GND
8	Output
14	+5VDC

Output Waveforms



Socket

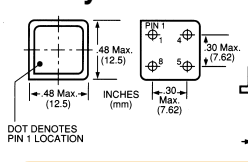


133006

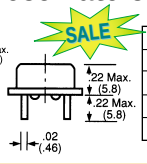
Part Number	Product Number	Frequency (MHz)	Input Current	Rise Fall Time	Max Input Current	Output Current	Pricing 1	10	100	1000
27861	OSC1	1.0	45mA	15ns	7mA	-1mA	$3.49	$2.95	$2.59	$2.25
27879	OSC184	1.8432	45mA	15ns	7mA	-1mA	1.99	1.79	1.49	1.29
27924	OSC2	2.0	30mA	15ns	7mA	-1mA	2.29	2.09	1.95	1.75
27967	OSC4	4.0	50mA	10ns	7mA	-1mA	1.89	1.69	1.39	1.19
27991	OSC8	8.0	30mA	15ns	15mA	-3mA	1.29	1.09	.89	.69
27887	OSC10	10.0	20mA	10ns	15mA	-3mA	1.29	1.09	.69	.55
144207	OSC11.05	11.059	30mA	10ns	50mA	-3mA	1.29	1.09	.89	.69
27895	OSC12	12.0	50mA	10ns	15mA	-3mA	1.29	1.09	.89	.69
108652	OSC14.31	14.31818	50mA	10ns	15mA	-3mA	1.09	.89	.65	.45
27908	OSC16	16.0	50mA	10ns	15mA	-3mA	1.29	1.09	.69	.55
27932	OSC20	20.0	20mA	10ns	17mA	-3mA	1.29	1.09	.89	.69
76814	OSC25	25.0	15mA	7ns	18mA	-3mA	.59	.55	.49	.45
27941	OSC32	32.0	15mA	7ns	18mA	-4mA	1.29	1.19	.99	.79
76822	OSC33	33.0	15mA	6ns	18mA	-4mA	1.29	1.15	1.05	.95
153226	OSC40	40.0	15mA	6ns	18mA	-4mA	.79	.72	.65	.59
76831	OSC50	50.0	25mA	6ns	25mA	-4mA	1.29	1.19	.99	.79
77489	OSC80	80.0	80mA	3ns	25mA	-4mA	1.89	1.69	1.39	1.19
76857	OSC100	100.0	90mA	3ns	25mA	-4mA	2.49	2.25	1.95	1.75

Part No.	Description	1	10	100	1000
133006	14-pin full can oscillator socket, low profile soldertail	$.59	$.45	$.39	$.35

TTL Crystal Clock Oscillators (half can)



SALE



Pin #	Function
1	N/C
4	GND
5	Output
8	+5VDC

- OSCH series oscillators fit into a standard 8-pin DIP socket P/N 51625, pg 50
- Input voltage: +5VDC ±0.5VDC • Frequency stability: ±100ppm • Operating temperature: 0°C to 70°C

Part Number	Product Number	Frequency (MHz)	Input Current	Rise Fall time	Max Input Current	Output Current	Pricing 1	10	100	1000
95249	OSC1H	1.0	20mA	6ns	30mA	-0.4mA	$1.95	$1.75	$1.59	$1.39
102779	OSC10H	10.0	30mA	6ns	45mA	-0.4mA	1.35	1.20	1.10	.99
172161	OSC50H	50.0	20mA	6ns	30mA	-0.4mA	.89	.79	.72	.65

Information at your fingertips — log onto www.jameco.com

TO-3 Heat Sink



- Traditional design
- Black anodized aluminum
- 4.8"L x 1.5"W x 1.3"H

Part No.	Product No.	Type	1	10	100
16512	DUDE4	TO-3	$2.95	$2.75	$2.49

TO-3 Heat Sink



- Black anodized aluminum
- Space saving heat sink ideal for 0.5" centering between boards

Wakefield

- 1.90"L x 1.42"W x 0.5"H
- Thermal performance: 900˚C @ 8.0 watts

Part No.	Product No.	Type	1	10	100
189835	635-5B2	TO-3	$.79	$.69	$.59

TO-3 Heat Sink



- Uses less board space
- Black anodized aluminum
- Spacers not included
- 1.9"L x 1.4"W x 1.3"H

Part No.	Product No.	Type	1	10	100
151546	635-125B2	TO-3	$.99	$.85	$.69

TO-3 Heat Sink

Thermalloy

with Mounting Screws



- Low profile; ideal for PC boards with 0.5" centering between boards
- Black anodized aluminum
- 2.1"L x 2.3"W x 0.4"H

SALE

Part No.	Product No.	Type	1	10	100
163820	THM6061B2	TO-3	$.19	$.17	$.15

TO-220 Heat Sink

AAVID



- Black anodized aluminum
- 1.2"L x 1.0"W x 0.5"H

Part No.	Product No.	Type	1	10	100	1000
42622	6030B	TO-220	$.33	$.30	$.27	$.24

TO-220 Heat Sink

Thermalloy



- Black anodized aluminum
- 0.75"L x 0.52"W x 0.38"H

Part No.	Product No.	Type	1	10	100	1000
158051	THM6078	TO-220	$.39	$.35	$.29	$.25

TO-220 Heat Sink

Thermalloy



- Use with plastic power semi-conductor devices
- Black anodized aluminum
- 0.8"L x 0.7"W x 0.4"H (P/N 70658)
- 1.2"L x 1.0"W x 0.5"H (P/N 129242)

Part No.	Product No.	Type	1	10	100	1000
70658	THM6073	TO-220	$.19	$.15	$.13	$.11
129242	THM6106	TO-220	.49	.45	.39	.35

TO-220 Heat Sink

Wakefield



- Black anodized aluminum
- 0.9"L x 1.0"W x 0.4"H

Part No.	Product No.	Type	1	10	100	1000
40504	291-36H	TO-220	$.89	$.79	$.69	$.59

TO-220 Heat Sink

Thermalloy

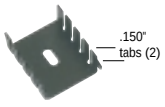
with Mounting Screws



- Black anodized aluminum
- Horizontal or vertical mounted
- 1.0"L x 1.6"W x 0.4"H

Part No.	Product No.	Type	1	10	100	1000
163811	THM7019	TO-220	$.49	$.39	$.29	$.25

TO-220 Heat Sink

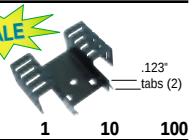


- Wave solderable
- Black anodized aluminum
- 1.2"L x 1.0"W x 0.5"H

Part No.	Product No.	Type	1	10	100
70771	THM6038	TO-220	$.49	$.45	$.39

TO-220 Heat Sink

SALE



- Black anodized aluminum
- Good for high power devices
- 1.6"L x 2.0"W x 0.8"H

Part No.	Product No.	Type	1	10	100
71301	THM7024	TO-220	$.69	$.62	$.55

TO-220 Clip-Style Heat Sink

IERC



- Light weight aluminum
- 0.8"L x 1.0"W x 0.4"H

Part No.	Product No.	Type	1	10	100	1000
107297	PSC2-2U	TO-220	$.49	$.45	$.39	$.35

TO-220 Heat Sink



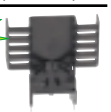
- Black anodized aluminum
- 1.2"L x 1.0"W x 0.5"H

Part No.	Product No.	Type	1	10	100
70914	THM6106	TO-220	$.49	$.45	$.39

TO-218 and TO-220 Heat Sinks

SALE

AAVID



- Black anodized aluminum
- Vertical mount w/ solder tabs

167265: For TO-218/TO-247

- Size: 2.0"L x 2.0"W x 0.5"H

Thermalloy

167273: For TO-220 w/ thermal clip

- Size: 2.0"L x 1.9"W x 1.0"H



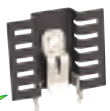
Part No.	Product No.	Type	1	10	100
167265	AVD592201	TO-218/247	$.15	$.14	$.12
167273	THM7023	TO-220	.19	.17	.15

TO-218 and TO-220 Heat Sinks

Thermalloy

with PCB Mounting Clip

SALE



- Black anodized aluminum
- Can be mounted vertically w/ solderable mounting tabs or horizontally w/ studs

164734: For TO-220

- Size: 1.4"L x 1.8"W x 0.4"H; low profile

163846: For TO-218/TO-220

- Size: 1.7"L x 1.8"W x 0.4"H



Part No.	Product No.	Type	1	10	100	1000
164734	THM6072	TO-220	$.15	$.13	$.12	$.11
163846	THM7021B	TO-218/220	.19	.17	.15	.13

Click on www.jameco.com

For full specifications on Heat Sinks and their thermal resistance characteristics

2-Oz. Tube Heat Sink Compound



Thermally loaded silicone-based grease that improves transfer of energy across the metal to metal interface between transistor or rectifier to heat sink.

- Color: opaque white

Part No.	Product No.	Description	1	10	100
167249	THM250	Heat sink compound	$8.95	$7.95	$6.95

4-Oz. Tube Heat Sink Compound

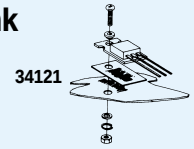
TECHSPRAY



This silicone-free compound provides more effective heat transfer. Will not harden, dry out, melt, or contaminate wave solder baths.

Part No.	Product No.	Description	1	10
169252	1978DP	Heat sink compound	$16.95	$14.95

TO-3 and TO-220 Heat Sink Mounting Kits



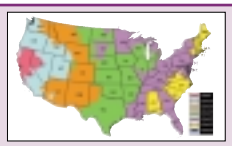


- TO-3 and TO-220 heat sink insulator assemblies
- 10 per pack

Part No.	Product No.	Type	Description	1	10	100
34121	T2	TO-220	5-piece kit	$4.95	$4.49	$3.95
34139	T3	TO-3	12-piece kit	4.95	4.49	3.95

Same day shipping until 6:00 p.m. EST.

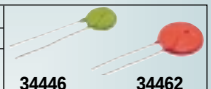
See page 182 for Zone Chart.



LA Series Varistors (Radial Lead)

- AC power line applications • Power supplies
- UL recognized as "transient voltage surge suppressors"
- UL recognized as "across-the-line components" • High energy absorption

LA Series Part No.	Product No.	Size Disc. Dia. (mm)	Max. Ratings (+85°C) Continuous RMS Volt. $V_{m(ac)}$ Volts	Max. Ratings (+85°C) Continuous DC Volt. $V_{m(dc)}$ Volts	Max. Ratings (+85°C) Transient Energy (10/1000µs) W_{tm} Joules	Characteristics at 25°C Max Clamping Volt. @ Ip Value Current (8/20µs) V Volts	Characteristics at 25°C Max Clamping Volt. @ Ip Value Current (8/20µs) Ip=2.0A Amps	Pricing 1	10	100	1000
34454	V130LA2	7	130	175	11	340	10	$.35	$.31	$.28	$.25
34446	V130LA10A	14	130	175	38	340	50	.45	.39	.35	.29
34471	V250LA20A	14	250	330	72	650	50	.59	.49	.45	.35
34462	V130LA20A	20	130	175	70	340	100	.69	.59	.49	.39



ZA Series Varistors (Radial Lead)

- Low DC voltage applications • Printed circuit board designs
- UL recognized as "transient voltage surge suppressors"
- Used for highly sensitive devices • Low transient energy
- Computer equipment • Alarm systems • Weight: .001 lbs.

ZA Series Part No.	Prod. No.	Size Disc. Dia. (mm)	Characteristics at 25°C Varistor Voltage @ 1 mA DC Test Current Min. Volts	Varistor Voltage @ 1 mA DC Test Current $V_{N(dc)}$ Volts	Varistor Voltage @ 1 mA DC Test Current Max. Volts	Max. Clamping Voltage @ Ip Value Current (8/20µs) V Volts	Max. Clamping Voltage @ Ip Value Current (8/20µs) Ip=2.0A Amps	Pricing 1	10	100	1000
96891	V8ZA1	7	6.0	8.2	11.0	22	5	$.29	$.25	$.22	$.19
190449	V18ZA1	7	16.0	18.0	20.0	35	2.5	.29	.25	.22	.19
96920	V22ZA1	7	20.0	22.0	24.0	48	1.0	.39	.35	.29	.25
190457	V47ZA1	7	42.0	47.0	52.0	93	2.5	.39	.35	.29	.25

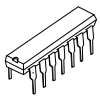


Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

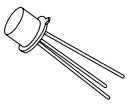
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Call for pricing on quantities over 5000 – we carry major manufacturers.
Any transistor may be supplied in ammo style tape by special order – 1000 piece min.

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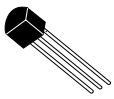

14-pin DIP Case

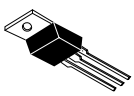

TO-3 Case

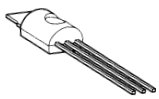

TO-18 Case


TO-39 Case


TO-72 Case


TO-92 Case


TO-220 Case


TO-237 Case


SOT-23 Case

✳ Prepackaged: please order in increments of 10, 100 or 1000 #Prepackaged: please order in increments of 100 or 1000

Part Number	Product Number	Case	Description	Vceo	Min. h_{FE} @ Ic	Typ. or Max f_t (MHz)	NTE/ ECG NO.	Pricing 1	10	100	1000
26462	MPSA06	TO-92	NPN medium power	30	50 @ 10mA	125	287	✳	$.13	$.11	$.09
26489	MPSA13	TO-92	NPN power darlington	30	5k @ 10mA	125	46	✳	.11	.09	.07
33021	TIP29A	TO-220	NPN power transistor	60	15 @ 1A	0.5	291	.55	.49	.45	.39
181825	TIP29C	TO-220	NPN epitaxial silicon transistor	100	15 @ 1A	3.0	—	.75	.69	.55	.45
33030	TIP30A	TO-220	PNP power transistor	60	15 @ 1A	0.5	292	.55	.49	.45	.39
33048	TIP31A	TO-220	NPN power transistor	60	10 @ 3A	0.5	291	.49	.39	.35	.29
33064	TIP32A	TO-220	PNP power transistor	60	10 @ 3A	0.5	292	.49	.39	.35	.29
181841	TIP32C	TO-220	PNP epitaxial silicon transistor	100	10 @ 3A	3.0	—	.75	.62	.47	.36
33081	TIP41A	TO-220	NPN power transistor	60	15 @ 3A	1	331	.59	.49	.45	.39
33101	TIP42A	TO-220	PNP power transistor	60	15 @ 3A	1	332	.59	.49	.45	.39
139580	TIP42C	TO-220	PNP epitaxial silicon transistor	100	15 @ 3A	3.0	—	.69	.59	.49	.45
120221	BPW77	TO-18	NPN photo transistor w/ lens	70	N/A	0.11	—	2.25	1.95	1.75	1.49
32977	TIP102	TO-220	NPN power darlington	100	1k @ 3A	—	2343	.65	.55	.49	.39
32985	TIP106	TO-220	PNP power darlington	80	1k @ 3A	—	2344	.59	.49	.39	.35
32993	TIP120	TO-220	NPN power darlington	60	1k @ 3A	—	261	.65	.55	.45	.39
120416	TIP122	TO-220	NPN power darlington	100	1k @ 3A	—	261	.59	.49	.45	.39
33013	TIP125	TO-220	PNP power darlington	60	1k @ 3A	—	262	.59	.49	.45	.39
194301	2N1711	TO-39	NPN general purpose	35	100 @ 150mA	—	—	.42	.38	.34	.31
194319	2N1893	TO-39	NPN general purpose	80	40 @ 150mA	—	—	.95	.86	.77	.69
194327	2N2102	TO-39	NPN general purpose	65	40 @ 150mA	—	—	.69	.62	.56	.50
194335	2N2218A	TO-39	NPN general purpose	40	40 @ 150mA	—	—	.59	.53	.48	.43
38228	2N2219A	TO-39	NPN general purpose	40	100 @ 150mA	300	128	.59	.49	.45	.39
28628	PN2222	TO-92	NPN general purpose	30	100 @ 150mA	250	123AP	✳	.12	.10	.08
94941	PN222SM	SOT-23	NPN general purpose	30	100 @ 150mA	250	123AP	#	#	.19	.15
38236	2N2222A	TO-18	NPN general purpose	40	100 @ 150mA	250	123A	.39	.35	.29	.25
26446	MPQ2222	14-pin DIP	NPN gen. purp. small signal/quad	40	100 @ 150mA	200	2321	2.25	1.95	1.79	1.65
194351	2N2484	TO-18	NPN general purpose	60	250 @ 1mA	—	—	.58	.52	.47	.42
194343	2N2369A	TO-18	NPN general purpose	15	40 @ 10mA	—	—	.50	.45	.41	.37
194378	2N2905A	TO-39	PNP general purpose	60	100 @ 150mA	—	—	.55	.50	.45	.40
28644	PN2907	TO-92	PNP general purpose	40	100 @ 150mA	200	159	✳	.10	.08	.06
38279	2N2907A	TO-18	PNP general purpose	60	100 @ 150mA	200	129P	.29	.25	.22	.17
94959	PN2907SM	SOT-23	PNP genral purpose	40	100 @ 150mA	200	159	#	#	.09	.05
26454	MPQ2907	14-pin DIP	PNP gen. purp. small signal/quad	40	100 @ 150mA	200	2322	1.95	1.75	1.55	1.35
25831	MJE2955T	TO-220	PNP power transistor	60	20 @ 4A	2	332	.65	.55	.49	.39
194386	2N3019	TO-39	NPN general purpose	80	100 @ 150mA	—	—	.64	.58	.52	.46
38295	2N3053	TO-39	NPN general purpose	40	25 @ 150mA	100	129	.65	.55	.49	.39
25857	MJE3055T	TO-220	NPN power transistor	60	20 @ 4A	2	331	.65	.55	.49	.45
38308	2N3055	TO-3	NPN power bipolar, epitaxial base	60	15 @ 10A	0.01	130	.75	.65	.59	.45
194407	2N3251A	TO-18	PNP general purpose	60	100 @ 10mA	—	—	.36	.32	.29	.26
194423	2N3440	TO-39	NPN general purpose	250	40 @ 20mA	—	—	.59	.54	.49	.46
194415	2N3439	TO-39	NPN general purpose	350	40 @ 20mA	—	—	.67	.61	.56	.49
194431	2N3501	TO-39	NPN general purpose	150	100 @ 150mA	—	—	1.99	1.79	1.61	1.45
194440	2N3637	TO-39	PNP general purpose	175	100 @ 50mA	—	—	1.49	1.34	1.21	1.09
194458	2N3700	TO-18	NPN general purpose	80	100 @ 150mA	—	—	.63	.57	.47	.43
38324	2N3772	TO-3	NPN power bipolar, epitaxial base	40	15 @ 4A	0.05	181	1.75	1.59	1.39	1.25
140151	2N3773	TO-3	NPN power audio	140	15 @ 8A	----	284	2.49	2.25	1.95	1.75
38359	2N3904	TO-92	NPN general purpose	40	100 @ 10mA	300	123AP	✳	.06	.05	.04
94967	2N3904SM	SOT-23	NPN general purpose	40	100 @ 10mA	40	123AP	#	#	.07	.06
38375	2N3906	TO-92	PNP general purpose	40	100 @ 10mA	250	159	✳	.06	.05	.04
94975	2N3906SM	SOT-23	PNP general purpose	40	100 @ 10mA	250	159	#	#	.08	.05
194466	2N4033	TO-39	PNP general purpose	80	100 @ 100mA	—	—	.75	.68	.61	.55
194474	2N4036	TO-39	PNP general purpose	65	40 @ 150mA	—	—	.79	.71	.64	.58
194482	2N4235	TO-39	PNP general purpose	60	30 @ 250mA	—	—	1.39	1.25	1.13	.99
194491	2N4238	TO-39	NPN general purpose	80	30 @ 250mA	—	—	2.49	2.25	1.99	1.65
38421	2N4401	TO-92	NPN general purpose	40	100 @ 150mA	250	123AP	✳	.07	.06	.05
38447	2N4403	TO-92	PNP general purpose	40	100 @ 150mA	200	159	✳	.07	.06	.05
194520	2N5038	TO-3	NPN power transistor	90	50 @ 2A	—	—	4.59	4.13	3.72	3.35

Transistors continued on next page

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Transistors (Continued)

Call for pricing on quantities over 5000 – we carry major manufacturers.

Any transistor may be supplied in ammo style tape by special order – 1000 piece min.

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Part Number	Product Number	Case	Description	Vceo	Min. h_{FE} @ Ic	Typ. or Max f_t (MHz)	NTE/ ECG NO.	Pricing 1	10	100	1000
140388	2N5109	TO-39	NPN RF broad band transistor	20	40 @ 50mA	1200	278	$1.99	$1.58	$1.35	$1.12
38480	PN5179	TO-92	NPN high frequency transistor	15	25 @ 3mA	2000	229	.99	.89	.79	.69
140373	2N5179	TO-72	NPN low noise UHF transistor	12	25 @ 3mA	900	316	1.09	.99	.89	.79
194538	2N5320	TO-39	NPN general purpose	75	30 @ 500mA	—	—	.89	.80	.72	.65
194546	2N5415	TO-39	PNP general purpose	200	30 @ 50mA	—	—	.79	.71	.64	.58
194554	2N5416	TO-39	PNP general purpose	300	30 @ 50mA	—	—	.85	.76	.70	.63
194562	2N5679	TO-39	PNP general purpose	100	40 @ 250mA	—	—	1.19	1.07	.97	.87
194571	2N6042	TO-220	PNP power transistor	100	1000 @ 3A	—	—	.49	.45	.41	—
194589	2N6045	TO-220	NPN power transistor	100	1000 @ 3A	—	—	.99	.89	.80	.72
194597	2N6052	TO-3	PNP power transistor	100	750 @ 6A	—	—	2.95	2.66	2.39	2.15
194600	2N6059	TO-3	NPN power transistor	100	750 @ 6A	—	—	2.95	2.66	2.39	2.15
194618	2N6547	TO-3	NPN power transistor	400	12 @ 5A	—	—	5.95	5.36	4.82	4.34
194626	2N6678	TO-3	NPN power transistor	400	8 @ 15A	—	—	6.25	5.63	5.06	4.56
140134	2N6725	TO-237	NPN darlington	50	25000 @ 200mA	100	48	.55	.45	.39	.35

J-FET Transistors

Part Number	Product Number	Case	Description	BV_{GS} (V)min @ IGuA	I_{DSS} (max) (mA) @ V_{DS}	VP (max) @ V_{DS}	NTE/ ECG No.	Pricing 1	10	100	1000
26403	MPF102	TO-92	JFET (N Channel) RF, VHF, UHF, amp	25 @ 1	20 @ 15	4 @ 0.5	451	$.39	$.35	$.29	$.25
140142	J176	TO-92	JFET (P Channel)	30 @ 1	2 @ 25	4 @ -15	—	.49	.45	.39	.35
38341	2N3823	TO-72	JFET (N Channel) VHF, amp	30 @ 1	20 @ 15	8 @ 0.5	452	1.09	.99	.89	.79
38527	2N5951	TO-92	JFET (N Channel) RF, VHF, UHF, amp	30 @ 1	13 @ 15	5 @ 100	—	1.05	.95	.85	.75
119423	2N7000	TO-92	FET TMOS (N Channel)	—	1 @ 48	—	491	.35	.29	.25	.22

Darlington Power Transistors

Part No.	Product No.	Case	Desc.	Vceo	Min. h_{FE} @Ic	1	10	100	1000
179266	TIP110-SAM	TO-220	NPN	60	500 @ 2A	$.45	$.41	$.37	$.33
179282	TIP117-SAM	TO-220	PNP	-100	500 @ 2A	.55	.49	.45	.41
179240	TIP102-SAM	TO-220	NPN	100	1000 @ 3A	.69	.62	.56	.49
179258	TIP107-SAM	TO-220	PNP	-100	1000 @ 3A	.75	.69	.59	.55
179291	TIP120-SAM	TO-220	NPN	60	1000 @ 3A	.58	.52	.47	.42
179303	TIP122-SAM	TO-220	NPN	100	1000 @ 3A	.62	.56	.49	.45
179311	TIP125-SAM	TO-220	PNP	-60	1000 @ 3A	.62	.56	.49	.45
179320	TIP127-SAM	TO-220	PNP	-100	1000 @ 3A	.55	.49	.45	.41

Power Transistors

Part No.	Product No.	Case	Desc.	Vceo	Min. h_{FE}@Ic	1	10	100	1000
179338	TIP29C-SAM	TO-220	NPN	100	15 @ 1A	$.52	$.47	$.42	$.38
179346	TIP30C-SAM	TO-220	PNP	-100	15 @ 1A	.52	.47	.42	.38
179354	TIP31C-SAM	TO-220	NPN	100	10 @ 3A	.58	.52	.47	.42
179362	TIP32C-SAM	TO-220	PNP	-100	10 @ 3A	.52	.47	.42	.38
179371	TIP41C-SAM	TO-220	NPN	100	15 @ 3A	.65	.53	.45	.39
179389	TIP42C-SAM	TO-220	PNP	-100	15 @ 3A	.69	.59	.49	.45
179397	TIP50-SAM	TO-220	NPN	400	30 @ .3A	.67	.60	.54	.49

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Power Transistors

Part Number	Product Number	Case	Intrinsic Standoff ratio	Pk. Pt. Curr. (max)	Valley Pt. Curr. (min)	Pricing 1	10	100	1000
194360	2N2647	TO-18	0.68 (min)	2.0µA	8.0mA	$2.95	$2.65	$2.39	$2.19
194503	2N4870	TO-92	0.56 (min)	5.0µA	2.0mA	1.95	1.75	1.58	1.42
194511	2N4871	TO-92	0.70 (min)	5.0µA	4.0mA	1.77	1.59	1.43	1.29

Small Signal General Purpose Transistors

Part No.	Product No.	Case	Desc.	Vceo	Min. h_{FE} @Ic (mA)	1	10	100	1000
178597	2N3904-FSC	TO-92	NPN	40	100 @ 10	✳	$.09	$.08	$.07
178618	2N3906-FSC	TO-92	PNP	-40	100 @ 10	✳	.09	.08	.07
178634	2N4401-FSC	TO-92	NPN	40	100 @ 150	✳	.15	.12	.10
178651	2N4403-FSC	TO-92	PNP	-40	100 @ 150	✳	.12	.10	.09
178677	KSP05-FSC	TO-92	NPN	60	50 @ 100	✳	.09	.08	.07
178693	KSP55-FSC	TO-92	PNP	-60	50 @ 100	✳	.13	.12	.11
178706	KSP06-FSC	TO-92	NPN	80	50 @ 100	✳	.09	.08	.07
178714	KSP56-FSC	TO-92	PNP	-80	50 @ 100	✳	.09	.08	.07
178722	KSP2222A-FSC	TO-92	NPN	40	100 @ 150	✳	.14	.12	.10
178731	KSP2907A-FSC	TO-92	PNP	-60	100 @ 150	✳	.10	.09	.08

Small Signal General Purpose Transistors

Part No.	Product No.	Case	Desc.	Vceo	Min. h_{FE}@Ic (mA)	1	10	100	1000
178511	PN2222A	TO-92	NPN	40	100 @ 150	✳	$.16	$.15	$.13
178520	PN2907A	TO-92	PNP	-60	100 @ 150	✳	.16	.15	.13
178538	MPSA06	TO-92	NPN	80	100 @ 100	✳	.09	.08	.07
178589	2N3904	TO-92	NPN	40	100 @ 10	✳	.09	.08	.07
178600	2N3906	TO-92	PNP	-40	100 @ 10	✳	.09	.08	.07
178626	2N4401	TO-92	NPN	40	100 @ 150	✳	.12	.10	.08
178642	2N4403	TO-92	PNP	-40	100 @ 150	✳	.12	.10	.08

Small Signal Low Noise Transistors

Part No.	Product No.	Case	Desc.	Vceo	Min. h_{FE}@Ic	1	10	100	1000
178562	2N5088	TO-92	NPN	30	300 @ 0.1mA	$.15	$.14	$.12	$.11

Small Signal High Voltage Transistors

Part No.	Product No.	Case	Desc.	Vceo	Min. h_{FE}@Ic (mA)	1	10	100	1000
178546	MPSA42	TO-92	NPN	300	40 @ 10	$.22	$.19	$.15	$.12
178554	MPSA92	TO-92	PNP	-300	40 @ 10	.12	.10	.09	.08
178571	2N5551	TO-92	NPN	160	80 @ 10	.12	.10	.09	.08

Small Signal RF/VHF/UHF Transistors

Part No.	Product No.	Case	Desc.	Vceo	Min. h_{FE}@Ic (mA)	1	10	100	1000
178685	KSP10-FSC	TO-92	NPN	25	60 @ 4	✳	$.12	$.11	$.10

Small Signal High Voltage Transistors

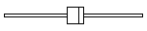
Part No.	Product No.	Case	Desc.	Vceo	Min. h_{FE}@Ic (mA)	1	10	100	1000
178749	KSP42-FSC	TO-92	NPN	300	40 @ 10	$.15	$.14	$.12	$.11
178757	KSP92-FSC	TO-92	PNP	-300	40 @ 10	.15	.14	.12	.11

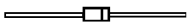
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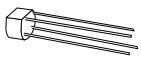
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WOG


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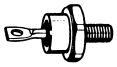

1.5KE / A405 / D0-15 / D0-27A / DO-41 / D0-201AD / D0-204AL


W0 type


KBP type

4-lead Molded Case


179-01 Case


DO-5 Case

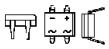

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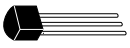

WOM

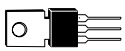

TB35


MB35


BR8D

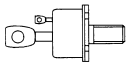

DF


TO-92 Case


TO-202 Case


TO-220/AB


TO-126


TO-65 Case

✳ Prepackaged: please order in increments of 10, 100 or 1000

Full Wave Bridge Rectifiers

SALE

Part No.	Product No.	NTE/ECG	Case	Description	1	10	100	1000
103018	W02G	—	WO type	200 PRV 1A	$.49	$.45	$.39	$.29
102980	W04G	—	WO type	400 PRV 1A	.49	.45	.39	.35
102998	W06G	—	WO type	600 PRV 1A	.45	.35	.25	.19
103000	DF01M	5332	4-pin DIP	100 PRV 1A	.39	.35	.29	.22
103042	DF02M	5332	4-pin DIP	200 PRV 1A	.49	.45	.39	.25
102971	DF04M	5332	4-pin DIP	400 PRV 1A	.49	.39	.29	.25
103034	DF06M	5332	4-pin DIP	600 PRV 1A	.49	.45	.39	.35
145429	KBP02M	—	KBP type	200 PRV 1.5A	.49	.39	.29	.25
119562	KBP04M	—	KBP type	400 PRV 1.5A	.59	.49	.45	.29
25574	MDA990-3	5322	179-01	200 PRV 30A	3.95	3.49	2.95	2.49
25591	MDA990-6	5326	179-01	600 PRV 30A	4.95	3.95	3.49	2.95

Glass Passivated Ultra Fast Rectifiers

Part No.	Product No.	Case	Description	1	10	100	1000
177877	UF4001	DO-41	50PIV @ 1A	$.16	$.14	$.13	$.11
177885	UF4002	DO-41	100PIV @ 1A	.16	.14	.13	.11
177893	UF4003	DO-41	200PIV @ 1A	.16	.14	.13	.11
177906	UF4004	DO-41	400PIV @ 1A	.16	.15	.13	.12
177914	UF4005	DO-41	600PIV @ 1A	.17	.15	.13	.12
177922	UF4006	DO-41	800PIV @ 1A	.17	.15	.13	.12
177931	UF4007	DO-41	1000PIV @ 1A	.23	.21	.19	.17

Schottky Barrier Rectifiers

Part No.	Product No.	Case	Description	1	10	100	1000
177949	1N5817	DO-204AL	20PIV @ 1A	$.24	$.22	$.19	$.18
177957	1N5818	DO-204AL	30PIV @ 1A	.24	.20	.16	.15
177965	1N5819	DO-204AL	40PIV @ 1A	.24	.22	.19	.18
177973	1N5820	DO-201AD	20PIV @ 3A	.49	.45	.39	.35
177981	1N5821	DO-201AD	30PIV @ 3A	.49	.45	.39	.35
177990	1N5822	DO-201AD	40PIV @ 3A	.49	.45	.39	.35

Silicon Rectifiers

Part No.	Prod. No.	NTE/ECG	Case	Description	1	10	100	1000
35975	1N4001	116	DO-41	50 PRV 1A	✳	$.04	$.025	$.02
76961	1N4002	116	DO-41	100 PRV 1A	✳	.04	.025	.02
76970	1N4003	116	DO-41	200 PRV 1A	✳	.04	.025	.02
35991	1N4004	116	DO-41	400 PRV 1A	✳	.04	.025	.02
76988	1N4005	116	DO-41	600 PRV 1A	✳	.04	.025	.02
76996	1N4006	125	DO-41	800 PRV 1A	✳	.07	.05	.03
36011	1N4007	125	DO-41	1000 PRV 1A	✳	.05	.03	.025
77075	1N5400	5800	DO-27A	50 PRV 3A	✳	.10	.08	.065
36249	1N5401	5801	DO-27A	100 PRV 3A	✳	.10	.09	.08
77083	1N5402	5802	DO-27A	200 PRV 3A	✳	.10	.09	.08
36265	1N5404	5804	DO-27A	400 PRV 3A	✳	.10	.09	.08
36273	1N5408	5809	DO-27A	1000 PRV 3A	✳	.15	.13	.11

Fast Recovery Rectifiers

SALE

Part No.	Product No.	Case	Description	1	10	100	1000
177826	1N4933	A-405	50PIV @ 1A	✳	$.06	$.045	$.04
177834	1N4934	A-405	100PIV @ 1A	✳	.09	.08	.07
177842	1N4935	A-405	200PIV @ 1A	✳	.06	.045	.04
177851	1N4936	A-405	400PIV @ 1A	✳	.06	.045	.04
177869	1N4937	A-405	600PIV @ 1A	✳	.09	.07	.05

Stud Rectifier

Part No.	Prod. No.	NTE/ECG	Case	Description	1	10	100	1000
35924	1N1188	5990	DO-5	400 PRV 35A	$3.49	$3.15	$2.89	$2.59

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Rectifiers

Part No.	Product No.	Case	Description	1	10	100	1000
177615	1N4001	DO-41	50PIV @ 1A	✳	$.05	$.04	$.03
177623	1N4002	DO-41	100PIV @ 1A	✳	.05	.04	.03
177631	1N4003	DO-41	200PIV @ 1A	✳	.05	.04	.03
177640	1N4004	DO-41	400PIV @ 1A	✳	.05	.04	.03
177658	1N4005	DO-41	600PIV @ 1A	✳	.05	.04	.03
177674	1N4007	DO-41	1000PIV @ 1A	✳	.05	.04	.03
177682	1N5400	DO-201AD	50PIV @ 3A	✳	.10	.09	.08
177691	1N5401	DO-201AD	100PIV @ 3A	✳	.16	.14	.10
177703	1N5402	DO-201AD	200PIV @ 3A	✳	.15	.12	.09
177720	1N5406	DO-201AD	600PIV @ 3A	✳	.10	.09	.08
177738	1N5407	DO-201AD	800PIV @ 3A	✳	.10	.09	.08
177746	1N5408	DO-201AD	1000PIV @ 3A	✳	.16	.14	.10
177754	T6A05L	T6L	50PIV @ 6A	.31	.28	.25	.23
177762	T6A10L	T6L	100PIV @ 6A	.45	.39	.35	.29
177789	T6A40L	T6L	400PIV @ 6A	.35	.30	.27	.24
177797	T6A60L	T6L	600PIV @ 6A	.35	.30	.27	.24
177800	T6A80L	T6L	800PIV @ 6A	.34	.31	.28	.25
177818	T6A100L	T6L	1000PIV @ 6A	.45	.39	.35	.29

Glass Passivated Bridge Rectifiers

SALE

Part No.	Product No.	Case	Description	1	10	100	1000
178001	DF005M	DF	50PIV @ 1.0A	$.35	$.30	$.27	$.24
178028	DF01M	DF	100PIV @ 1.0A	.35	.30	.27	.24
178044	DF02M	DF	200PIV @ 1.0A	.35	.30	.27	.24
178061	DF04M	DF	400PIV @ 1.0A	.35	.30	.27	.24
178087	DF06M	DF	600PIV @ 1.0A	.39	.35	.31	.28
178108	DF08M	DF	800PIV @ 1.0A	.39	.35	.32	.29

Glass Passivated Bridge Rectifiers

SALE

Part No.	Product No.	Case	Description	1	10	100	1000
178036	DF01M-GSI	DF	100PIV @ 1.0A	$.29	$.26	$.23	$.21
178052	DF02M-GSI	DF	200PIV @ 1.0A	.29	.26	.23	.21
178095	DF06M-GSI	DF	600PIV @ 1.0A	.32	.29	.26	.23
178116	DF08M-GSI	DF	800PIV @ 1.0A	.33	.30	.27	.24
179418	W005G-GSI	W0G	50PIV @ 1.5A	.35	.32	.29	.26
179426	W01G-GSI	W0G	100PIV @ 1.5A	.35	.32	.29	.26
179434	W02G-GSI	W0G	200PIV @ 1.5A	.35	.32	.29	.26
179442	W04G-GSI	W0G	400PIV @ 1.5A	.37	.33	.30	.27
179451	W06G-GSI	W0G	600PIV @ 1.5A	.39	.35	.31	.28
179469	W08G-GSI	W0G	800PIV @ 1.5A	.39	.35	.31	.28
179477	GBPC25-01-GSI	GBPC	100PIV @ 25A	2.49	2.25	2.02	1.82
179485	GBPC25-02-GSI	GBPC	200PIV @ 25A	2.49	2.25	2.02	1.82
179493	GBPC25-04-GSI	GBPC	400PIV @ 25A	2.49	2.25	2.02	1.82
179506	GBPC25-06-GSI	GBPC	600PIV @ 25A	2.49	2.25	2.02	1.82
179514	GBPC25-08-GSI	GBPC	800PIV @ 25A	2.49	2.25	2.02	1.82
179522	GBPC25-10-GSI	GBPC	1000PIV @ 25A	2.49	2.25	2.02	1.82

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Bridge Rectifiers

SALE

Part No.	Product No.	Case	Description	1	10	100	1000
178124	W005M	WOM	50PIV @ 1.5A	$.49	$.45	$.39	$.29
178132	W01M	WOM	100PIV @ 1.5A	.49	.45	.39	.29
178141	W02M	WOM	200PIV @ 1.5A	.49	.45	.39	.29
178159	W04M	WOM	400PIV @ 1.5A	.49	.45	.39	.29
178167	W06M	WOM	600PIV @ 1.5A	.29	.27	.24	.22
178175	W08M	WOM	800PIV @ 1.5A	.29	.27	.24	.22
178183	BR805D	BR8D	50PIV @ 2A	.85	.77	.69	.62
178191	BR81D	BR8D	100PIV @ 2A	.55	.48	.44	.39
178204	BR82D	BR8D	200PIV @ 2A	.85	.77	.69	.62
178221	BR86D	BR8D	600PIV @ 2A	.55	.49	.45	.39
178239	BR88D	BR8D	800PIV @ 2A	.55	.49	.45	.41
178247	BR810D	BR8D	1000PIV @ 2A	.69	.59	.49	.39
178255	MB2505	MB35	50PIV @ 25A	2.79	2.51	2.26	1.95
178263	MB251	MB35	100PIV @ 25A	2.79	2.53	2.28	2.05
178271	MB252	MB35	200PIV @ 25A	4.19	3.77	3.39	3.05
178280	MB254	MB35	400PIV @ 25A	4.19	3.77	3.39	3.05
178298	MB256	MB35	600PIV @ 25A	3.59	3.19	2.89	2.59
178301	MB258	MB35	800PIV @ 25A	2.89	2.58	2.32	2.09
178319	MB2510	MB35	1000PIV @ 25A	2.89	2.59	2.33	2.10
178327	TB251	TB35	100PIV @ 25A	2.85	2.55	2.30	2.07
178335	TB252	TB35	200PIV @ 25A	2.79	2.51	2.26	1.95
178343	TB254	TB35	400PIV @ 25A	2.85	2.55	2.30	2.07
178351	TB256	TB35	600PIV @ 25A	2.87	2.57	2.31	2.08
178360	TB258	TB35	800PIV @ 25A	2.88	2.58	2.32	2.09
178378	TB2510	TB35	1000PIV @ 25A	4.19	3.77	3.39	3.05
178386	MB3505	MB35	50PIV @ 35A	2.95	2.67	2.40	2.16
178394	MB351	MB35	100PIV @ 35A	2.95	2.68	2.41	2.17
178407	MB352	MB35	200PIV @ 35A	2.95	2.70	2.43	2.19
178415	MB354	MB35	400PIV @ 35A	2.95	2.70	2.43	2.19
178423	MB356	MB35	600PIV @ 35A	2.95	2.72	2.44	2.20
178431	MB358	MB35	800PIV @ 35A	2.95	2.74	2.47	2.22
178440	TB3505	TB35	50PIV @ 35A	2.95	2.67	2.40	2.16
178458	TB351	TB35	100PIV @ 35A	4.39	3.95	3.56	3.19
178466	TB352	TB35	200PIV @ 35A	2.95	2.70	2.43	2.19
178474	TB354	TB35	400PIV @ 35A	2.95	2.70	2.44	2.20
178482	TB356	TB35	600PIV @ 35A	2.95	2.72	2.45	2.20
178491	TB358	TB35	800PIV @ 35A	2.95	2.75	2.47	2.22
178503	TB3510	TB35	1000PIV @ 35A	3.49	3.15	2.89	2.39

Triacs

Part No.	Prod. No.	NTE/ECG	Case	Description	1	10	100	1000
140425	2N6071A	5603	TO-126	200 PRV, 4A	$.69	$.59	$.49	$.45
31819	SC146B	5633	TO-220	200 PRV, 10A (2N6342)	1.19	.99	.85	.75
31827	SC146M	5637	TO-220	600 PRV, 10A (2N6344)	1.69	1.49	1.29	1.09
139336	Q4015L5	56020	TO-220AB	400 PRV, 15A	1.69	1.49	1.25	1.09

Silicon Controlled Rectifiers (SCR) (*Isolated)

Part No.	Prod. No.	NTE/ECG	Case	Description	1	10	100	1000
119802	2N5060	5400	TO-92	25 PRV 0.8A	$.35	$.29	$.25	$.19
120070	2N5062	5402	TO-92	100 PRV 0.8A	.49	.45	.39	.35
14736	C106B1	5455	TO-202	200 PRV 4A (2N6239)*	.59	.49	.45	.39
14752	C122B	5463	TO-220	200 PRV 8A*	.99	.89	.79	.65
14761	C122M	5466	TO-220	600 PRV 8A*	1.35	1.15	.99	.89
140417	2N6507	5554	TO-220AB	400 PRV 25A	1.29	1.09	.89	.79
14859	C38M	5547	TO-65	600 PRV 35A (2N3899)	5.49	4.49	3.75	2.95

N-Channel Power Mosfet

Part No.	Product No.	Case	Drain Source Brkdwn Vltg.	Min. On-State DS Current	Pricing 1	10	100	1000
178669	2N7000-FSC	TO-92	60VDC	0.2A	$.23	$.21	$.19	$.17

N-Channel Mosfet

Part No.	Product No.	Case	Drain Source Vltg. (VDSS)	Min. On-State DS Current	Pricing 1	10	100	1000
184719	IRF840	TO-220	500VDC	8.0A	$1.29	$1.15	$1.05	$.95

Bidirectional Transient Voltage Suppressor

Part No.	Prod. No.	NTE/ECG	Case	Description	1	10	100	1000
103106	1.5KE15CA	4921	1.5KE	15V@1mA 1500W	$.59	$.49	$.39	$.29

Transient Voltage Suppressors

SALE

CA: Bidirectional A: Unidirectional

Part No.	Product No.	Case	Min Brkdwn Vltg. (Vbr)	Stand-off Voltage	Pricing 1	10	100	1000
179531	1.5KE100CA-GSI	1.5KE	95	85.5	$.64	$.58	$.52	$.47
179549	1.5KE16A-GSI	1.5KE	15.2	13.6	.49	.44	.40	.36
179557	1.5KE18A-GSI	1.5KE	17.1	15.3	.49	.44	.40	.36
179565	1.5KE22A-GSI	1.5KE	20.9	18.8	.49	.45	.40	.35
179573	1.5KE250CA-GSI	1.5KE	237	214	.81	.73	.66	.59
179581	1.5KE30AGSI	1.5KE	28.5	25.6	.49	.45	.39	.35
179590	1.5KE33A-GSI	1.5KE	31.4	28.2	.59	.55	.45	.35
179602	1.5KE350A-GSI	1.5KE	333	300	.59	.55	.50	.45
179611	1.5KE39CA-GSI	1.5KE	37.1	33.3	.53	.48	.43	.39
179629	1.5KE43CA-GSI	1.5KE	40.9	36.8	.54	.49	.45	.39
179637	1.5KE51A-GSI	1.5KE	48.5	43.6	.49	.44	.40	.36
179645	1.5KE51CA-GSI	1.5KE	48.5	43.6	.69	.59	.49	.39
179653	1.5KE6.8A-GSI	1.5KE	6.45	5.8	.49	.45	.39	.35
179661	1.5KE6.8CA-GSI	1.5KE	6.45	5.8	.69	.59	.49	.39
179670	1.5KE68CA-GSI	1.5KE	64.6	58.1	.65	.55	.49	.39
179688	P6KE12A-GSI	DO-15	11.4	10.2	.29	.26	.23	.21
179696	P6KE13A-GSI	DO-15	12.4	11.1	.29	.26	.23	.21
179709	P6KE15A-GSI	DO-15	14.3	12.8	.33	.29	.25	.20
179717	P6KE15CA-GSI	DO-15	14.3	12.8	.32	.28	.25	.23
179725	P6KE16A-GSI	DO-15	15.2	13.6	.29	.26	.23	.21
179733	P6KE16CA-GSI	DO-15	15.2	13.3	.32	.29	.25	.22
179741	P6KE18A-GSI	DO-15	17.1	15.3	.29	.26	.23	.21
185463	P6KE180A-GSI	DO-15	171	154	.18	.15	.13	.12
179750	P6KE200A-GSI	DO-15	190	171	.29	.26	.23	.21
179768	P6KE200CA-GSI	DO-15	190	171	.35	.29	.25	.22
179776	P6KE20A-GSI	DO-15	19	17.1	.29	.26	.23	.21
179784	P6KE27A-GSI	DO-15	25.7	23.1	.29	.26	.23	.21
179792	P6KE33CA-GSI	DO-15	31.4	28.2	.35	.29	.26	.23
179805	P6KE39A-GSI	DO-15	37.1	33.3	.29	.26	.23	.21
179813	P6KE43CA-GSI	DO-15	40.9	36.8	.32	.28	.25	.23
179821	P6KE6.8A-GSI	DO-15	6.45	5.8	.29	.25	.22	.19
179830	P6KE6.8CA-GSI	DO-15	6.45	5.8	.32	.29	.26	.23
179848	P6KE82A-GSI	DO-15	77.9	70.1	.29	.26	.23	.21
179856	P6KE9.1A-GSI	DO-15	8.65	7.78	.29	.26	.23	.21

Zener Diodes (DO-35 Case)

SALE

Part No.	Product No.	Case	Description	1	10	100	1000
179004	1N5225B-VSHY	DO-35	3.0V @ 20mA	*	$.10	$.07	$.05
179012	1N5226B-VSHY	DO-35	3.3V @ 20mA	*	.08	.06	.035
179021	1N5229B-VSHY	DO-35	4.3V @ 20mA	*	.05	.045	.04
179039	1N5230B-VSHY	DO-35	4.7V @ 20mA	*	.05	.045	.04
179047	1N5231B-VSHY	DO-35	5.1V @ 20mA	*	.08	.06	.035
179055	1N5232B-VSHY	DO-35	5.6V @ 20mA	*	.07	.05	.035
179063	1N5234B-VSHY	DO-35	6.2V @ 20mA	*	.07	.05	.035
179071	1N5239B-VSHY	DO-35	9.1V @ 20mA	*	.05	.045	.04
179080	1N5241B-VSHY	DO-35	11V @ 20mA	*	.05	.045	.04
179098	1N5242B-VSHY	DO-35	12V @ 20mA	*	.07	.05	.035
179101	1N5245B-VSHY	DO-35	15V @ 8.5mA	*	.07	.05	.035
179119	1N5246B-VSHY	DO-35	16V @ 7.8mA	*	.05	.045	.04
179127	1N5248B-VSHY	DO-35	18V @ 7.0mA	*	.05	.045	.04
179135	1N5250B-VSHY	DO-35	20V @ 6.2mA	*	.05	.045	.04
179143	1N5253B-VSHY	DO-35	25V @ 5.0mA	*	.05	.045	.04
179151	1N5257B-VSHY	DO-35	33V @ 3.8mA	*	.05	.045	.04
179160	1N5258B-VSHY	DO-35	36V @ 3.4mA	*	.05	.045	.04
179178	1N5260B-VSHY	DO-35	43V @ 3.0mA	*	.05	.045	.04
179186	1N5262B-VSHY	DO-35	51V @ 2.5mA	*	.05	.045	.04
179194	1N5267B-VSHY	DO-35	75V @ 1.7mA	*	.05	.045	.04

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151247



DL-35 Case

DO-7/35/41 Case

✳ Prepackaged: please order in increments of 10, 100 or 1000

Taped-ammo style: please order in increments of 1000

Zener Diodes (DO-41 case)

SALE

Part No.	Product No.	Case	Description	1	10	100	1000
178765	1N4730A-VSHY	DO-41	3.9V @ 64mA	✳	$.12	$.08	$.06
178773	1N4732A-VSHY	DO-41	4.7V @ 53mA	✳	.10	.07	.05
178781	1N4733A-VSHY	DO-41	5.1V @ 49mA	✳	.13	.11	.06
178790	1N4734A-VSHY	DO-41	5.6V @ 45mA	✳	.08	.07	.06
178802	1N4735A-VSHY	DO-41	6.2V @ 41mA	✳	.09	.07	.06
178811	1N4737A-VSHY	DO-41	7.5V @ 34mA	✳	.08	.07	.06
178829	1N4738A-VSHY	DO-41	8.2V @ 31mA	✳	.12	.08	.06
178837	1N4739A-VSHY	DO-41	9.1V @ 28mA	✳	.13	.11	.06
178845	1N4740A-VSHY	DO-41	10V @ 25mA	✳	.12	.08	.06
178853	1N4742A-VSHY	DO-41	12V @ 21mA	✳	.13	.11	.06
178861	1N4744A-VSHY	DO-41	15V @ 17mA	✳	.13	.11	.06
178870	1N4746A-VSHY	DO-41	18V @ 14mA	✳	.12	.08	.06
178888	1N4747A-VSHY	DO-41	20V @ 12.5mA	✳	.08	.07	.06
178896	1N4748A-VSHY	DO-41	22V @ 11.5mA	✳	.08	.07	.06
178909	1N4749A-VSHY	DO-41	24V @ 10.5mA	✳	.13	.11	.06
178917	1N4750A-VSHY	DO-41	27V @ 9.5mA	✳	.08	.07	.06
178925	1N4751A-VSHY	DO-41	30V @ 8.5mA	✳	.08	.07	.06
178933	1N4752A-VSHY	DO-41	33V @ 7.5mA	✳	.08	.07	.06
178941	1N4753A-VSHY	DO-41	36V @ 7.0mA	✳	.08	.07	.06
178950	1N4755A-VSHY	DO-41	43V @ 6.0mA	✳	.08	.07	.06
178968	1N4756A-VSHY	DO-41	47V @ 5.5mA	✳	.08	.07	.06
178976	1N4758A-VSHY	DO-41	56V @ 4.5mA	✳	.08	.07	.06
178984	1N4759A-VSHY	DO-41	62V @ 4.0mA	✳	.08	.07	.06
178992	1N4761A-VSHY	DO-41	75V @ 3.3mA	✳	.08	.07	.06

Zener Diodes

Part No.	Prod. No.	NTE/ECG	Case	Description	1	10	100	1000
36290	1N751	5010A	DO-35	5.1V @ 20mA .5 W	✳	$.09	$.08	$.06
36089	1N4732	5096	DO-41	4.7V @ 53mA 1 W	✳	.09	.08	.06
36097	1N4733	135A	DO-41	5.1V @ 49mA 1 W	✳	.09	.08	.06
36118	1N4734	136A	DO-41	5.6V @ 45mA 1 W	✳	.09	.08	.06
36126	1N4735	137A	DO-41	6.2V @ 41mA 1 W	✳	.09	.08	.06
36169	1N4742	142A	DO-41	12.0V @ 21mA 1 W	✳	.09	.08	.06
36185	1N4744	145A	DO-41	15.0V @ 17mA 1 W	✳	.09	.08	.06
183450	1N4750A	146A	DO-41	27.0V @ 9.5mA 1 W	✳	.08	.07	.05

Switching Diodes

Part No.	Prod. No.	NTE/ECG	Case	Description	1	10	100	1000
35967	1N3600	519	DO-35	50 PRV @ 100µa, 200mA	✳	$.12	$.10	$.08
36038	1N4148	519	DO-35	75 PRV @ 50µa, 10mA	✳	.04	.03	.02
151247	1N4148T	519	DO-35	75 PRV @ 50µa, 10mA	#	#	#	.02
36311	1N914	519	DO-35	75 PRV @ 5µa, 10mA	✳	.05	.04	.03

Switching Diodes

Part No.	Product No.	Case	Description	1	10	100	1000
179207	1N914-VSHY	DO-35	100 PRV @ 25mA	✳	$.06	$.05	$.04
179215	1N4148-VSHY	DO-35	100 PRV @ 25mA	✳	.14	.13	.11

General Purpose Diodes

Part No.	Prod. No.	NTE/ECG	Case	Description	1	10	100	1000
35941	1N270	109	DO-7	80 PRV, 200mA	$.75	$.69	$.59	$.49

General Purpose Diodes

SALE

Part No.	Product No.	Case	Description	1	10	100	1000
179231	BAV21-VSHY	DO-35	250 PRV @ 200mA	✳	$.045	$.04	$.035
179223	BAV20-VSHY	DO-35	200 PRV @ 200mA	✳	.045	.04	.035

Surface Mount Diodes

✦ Surface Mount

Part No.	Product No.	NTE/ECG	Case	Description	1	100	1000
94908	1N4148SM✦	—	DL-35	75 PRV @ 50µa, 10mA (1N 914)	✳	$.04	$.035

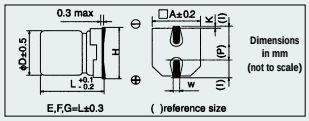
Surface Mount Aluminum Electrolytic Capacitors



193009 Tape and Reel



193009



Operating temperature range		-40˚C to +85˚C
Leakage Current (20˚C)	after 2 minutes	1≤ .01CV or 3µA

Surface Mount Aluminum Electrolytic Capacitors Cross Reference

NEW

Panasonic: VS Series

✳ Prepackaged: please order in increments of 10, 100 or 1000

✦ Surface Mount

Part No.	Product No.	Value (pF)	Voltage	Dia. (mm)	1	10	100	500
193228	SE1/50✦	1	50	4.0	✳	$.27	$.24	$.21
193236	SE2.2/50✦	2.2	50	4.0	✳	.39	.35	.30
193244	SE3.3/50✦	3.3	50	4.0	✳	.25	.22	.20
193076	SE427/25✦	4.7	25	4.0	✳	.31	.28	.24
193252	SE4.7/50✦	4.7	50	5.0	✳	.19	.17	.15
192997	SE10/16✦	10	16	4.0	✳	.29	.26	.23
193084	SE10/25✦	10	25	5.0	✳	.33	.29	.24
193164	SE10/35✦	10	35	5.0	✳	.19	.17	.15
193261	SE10/50✦	10	50	6.3	✳	.22	.19	.17
192891	SE22/6.3✦	22	6.3	4.0	✳	.32	.29	.24
193009	SE22/16✦	22	16	5.0	✳	.29	.26	.23
193092	SE22/25✦	22	25	6.3	✳	.39	.35	.28
193172	SE22/35✦	22	35	6.3	✳	.22	.19	.17
193279	SE22/50✦	22	50	6.3	✳	.30	.27	.23
193017	SE33/16✦	33	16	5.0	✳	.33	.29	.26
193105	SE33/25✦	33	25	6.3	✳	.22	.19	.17
193181	SE33/35✦	33	35	8.0	✳	.29	.26	.23
193287	SE33/50✦	33	50	8.0	✳	.37	.33	.28
193025	SE47/16✦	47	16	6.3	✳	.33	.29	.26
193113	SE47/25✦	47	25	6.3	✳	.39	.35	.30
193199	SE47/35✦	47	35	6.3	✳	.29	.26	.23
193295	SE47/50✦	47	50	10.0	✳	.39	.36	.28
192903	SE100/6.3✦	100	6.3	6.3	✳	.39	.35	.28
192954	SE100/10✦	100	10	6.3	✳	.22	.19	.17
193033	SE100/16✦	100	16	8.0	✳	.45	.41	.34
193121	SE100/25✦	100	25	8.0	✳	.37	.33	.28
193201	SE100/35✦	100	35	10.0	✳	.39	.35	.29
193308	SE100/50✦	100	50	10.0	✳	.54	.48	.44
192911	SE220/6.3✦	220	6.3	6.3	✳	.29	.26	.23
192962	SE220/10✦	220	10	8.0	✳	.37	.33	.28
193041	SE220/16✦	220	16	8.0	✳	.36	.32	.28
193130	SE220/25✦	220	25	10.0	✳	.64	.57	.51
193210	SE220/35✦	220	35	8.0	✳	.55	.49	.44
193316	SE220/50✦	220	50	10.0	✳	.69	.62	.55
193050	SE330/16✦	330	16	10.0	✳	.63	.29	.26
193148	SE330/25✦	330	25	8.0	✳	.55	.49	.45
192920	SE470/6.3✦	470	6.3	8.0	✳	.69	.62	.56
192971	SE470/10✦	470	10	10.0	✳	.79	.71	.63
193068	SE470/16✦	470	16	10.0	✳	.54	.48	.43
193156	SE470/25✦	470	25	10.0	✳	.69	.62	.55
192938	SE1000/6.3✦	1000	6.3	10.0	✳	.55	.49	.44
192989	SE1000/10✦	1000	10	10.0	✳	.89	.80	.72
192946	SE1500/6.3✦	1500	6.3	10.0	✳	.69	.62	.55

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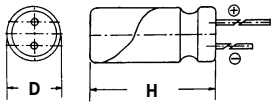


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Miniature Aluminum Radial Electrolytic Capacitors

General purpose low voltage 85°C (A); HT Type 105˚C (B) ±20%





Operating temperature range		-40°C to +85°C (A); -40˚C to +105˚C (B)
Leakage Current (20°C)	After 1 min.	0.03CV or 4μA, whichever is greater
	After 2 min.	0.01CV or 3μA, whichever is greater

RADIAL CAPACITOR CROSS REFERENCES

Elna: RC2/RE2; **IC:** RAR/RSS; **Marcon:** SEM/SSM; **Nichicon:** LB/VX/USA/SR/SA; **Rubycon:** MS7/TWSS; **Sprague:** 501D/513D; **UCC:** SME/SRE/SRA/SRG; **Panasonic:** KA/KS/SU

***** Capacitor dimensions and lead spacing may vary

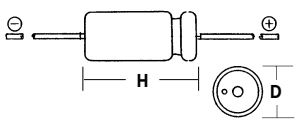
✻ Prepackaged: please order in increments of 10, 100 or 1000

Part Number	Product Number	Op. Temp	Value (μF)	Voltage	Size (mm)* DxH		Pricing 1	10	100	1000
158481	R0.47B100	B	0.47	100V	5x11.5	✻	$.07	$.05	$.035	
94160	5R1/50	A	1	50V	4x5	✻	.13	.10	.08	
29831	R1/50	A	1	50V	5x11	✻	.07	.05	.035	
158490	R1B100	B	1	100V	5x11.5	✻	.09	.07	.05	
93729	R2.2/50	A	2.2	50V	5x11	✻	.07	.05	.035	
135183	R3.3/50	A	3.3	50V	5x11	✻	.07	.05	.035	
31000	R4.7/50	A	4.7	50V	5x11	✻	.07	.05	.035	
158511	R4.7B100	B	4.7	100V	5x11.5	✻	.09	.07	.05	
94211	5R10/25	A	10	25V	4x5	✻	.14	.11	.09	
94220	5R10/35	A	10	35V	5x5	✻	.15	.11	.07	
94369	7R10/35	A	10	35V	5x7	✻	.10	.06	.04	
29891	R10/50	A	10	50V	5x10	✻	.06	.05	.04	
158529	R10B100	B	10	100V	6x11.5	✻	.08	.06	.045	
158326	R22B35	B	22	35V	5x11.5	✻	.07	.05	.035	
93737	R22/50	A	22	50V	6x11	✻	.06	.05	.035	
93745	R33/50	A	33	50V	6x11	✻	.07	.06	.04	
135301	R47/10	A	47	10V	5x12	✻	.015	.012	.01	
93753	R47/25	A	47	25V	6x7	✻	.05	.04	.03	
158246	R47B25	B	47	25V	5x11.5	✻	.06	.05	.035	
31114	R47/50	A	47	50V	6x11	✻	.07	.06	.045	
94289	5R100/16	A	100	16V	6x5	✻	.15	.12	.09	
94431	7R100/16	A	100	16V	6x7	✻	.12	.09	.07	
93761	R100/25	A	100	25V	6x11	✻	.09	.07	.05	
29962	R100/50	A	100	50V	8x11	✻	.07	.06	.05	
158393	R100B50	B	100	50V	8x12	✻	.11	.09	.07	
135124	7R220/10	A	220	10V	8x11	✻	.09	.05	.04	
30496	R220/25	A	220	25V	8x11	✻	.09	.07	.05	
158262	R220B25	B	220	25V	8x12	✻	.12	.09	.07	
93770	R220/35	A	220	35V	10x16	✻	.12	.09	.08	
93778	R220/50	A	220	50V	10x20	✻	.15	.12	.09	
158406	R220B50	B	220	50V	10x17	✻	.17	.14	.11	
93796	R330/25	A	330	25V	10x19	✻	.15	.12	.08	
93809	R470/16	A	470	16V	10x20	✻	.12	.09	.08	
158203	R470B16	B	470	16V	8x12	✻	.13	.10	.09	
31181	R470/25	A	470	25V	10x16	✻	.13	.10	.09	
158289	R470B25	B	470	25V	8x14	✻	.15	.12	.10	
93817	R470/35	A	470	35V	12x24	✻	.17	.15	.13	
93825	R470/50	A	470	50V	13x20	.29	.22	.15	.10	
158465	R470B63	B	470	63V	13x21	.37	.34	.25	.15	
30015	R1000/16	A	1000	16V	13x21	✻	.15	.12	.09	
93833	R1000/25	A	1000	25V	12x20	✻	.23	.19	.15	
158297	R1000B25	B	1000	25V	10x17	.35	.29	.25	.19	
158377	R1000B35	B	1000	35V	13x21	.39	.35	.29	.25	
93841	R1000/50	A	1000	50V	16x26	.52	.42	.37	.31	
133145	R2200/16	A	2200	16V	16x26	.39	.29	.25	.19	
30533	R2200/25	A	2200	25V	16x36	.45	.39	.35	.25	
158431	R2200B50	B	2200	50V	16x31	.89	.75	.59	.49	
30891	R3300/25	A	3300	25V	16x31	.69	.59	.49	.39	
93850	R4700/25	A	4700	25V	18x35	.79	.69	.59	.49	
163301	R4700/50	A	4700	50V	22x42	1.75	1.49	1.25	1.09	
31510	R6800/16	A	6800	16V	18x36	1.09	.99	.75	.69	

Miniature Aluminum Axial Electrolytic Capacitors

General purpose low voltage 85°C





Operating temperature range	-40°C to +85°C
Leakage Current (After 2 minutes 20°C)	0.02CV or 2μA, whichever is greater

AXIAL CAPACITOR CROSS REFERENCES

Elna: RE2; **IC:** RAR; **Marcon:** SEM; **Nichicon:** LB/VX; **Rubycon:** TWSS; **Sprague:** 501D/513D; **UCC:** SME; **Panasonic:** SU

***** Capacitor dimensions and lead spacing may vary

✻ Prepackaged: please order in increments of 10, 100 or 1000

Part Number	Product Number	Value (μF)	Voltage	Size (mm)* DxH		Pricing 1	10	100	1000
10866	A1/50	1	50V	5x13	✻	$.15	$.10	$.075	
93569	A2.2/50	2.2	50V	6x13	✻	.15	.10	.075	
11076	A4.7/50	4.7	50V	6x13	✻	.15	.12	.09	
93577	A10/35	10	35V	6x13	✻	.15	.12	.09	
10882	A10/50	10	50V	6x12	✻	.15	.12	.09	
158836	A10A63	10	63V	6x13	✻	.07	.06	.05	
10997	A22/50	22	50V	6x12	✻	.15	.12	.09	
135319	A47/25	47	25V	8x16	✻	.12	.08	.05	
11105	A47/50	47	50V	8x16	✻	.15	.12	.09	
147221	A68/25	68	25V	8x17	✻	.07	.06	.05	
93551	A100/35	100	35V	8x16	✻	.19	.15	.10	
10911	A100/50	100	50V	8x20	✻	.25	.19	.15	
11017	A220/50	220	50V	10x20	.29	.25	.19	.15	
11121	A470/50	470	50V	13x31	.59	.49	.45	.39	
93631	A1000/16	1000	16V	13x27	.39	.35	.29	.19	
10954	A1000/25	1000	25V	13x31	.59	.49	.39	.29	
93649	A1000/35	1000	35V	13x26	.69	.59	.45	.35	
147256	A1000/50	1000	50V	16x31	.69	.59	.55	.49	
11033	A2200/16	2200	16V	16x40	.49	.39	.35	.25	
93657	A2200/35	2200	35V	16x30	1.09	.99	.89	.75	
93665	A3300/25	3300	25V	16x32	.89	.79	.69	.59	
93673	A4700/25	4700	25V	22x39	1.49	1.25	.99	.75	
158810	A4700A50	4700	50V	25x43	2.49	2.25	1.95	1.75	
93681	A10000/16	10000	16V	22x51	1.95	1.75	1.49	1.25	

Large Can Aluminum Electrolytic Snap Capacitors (±20%)

Snap-Ins!

- Designed as input filter for switched mode power supply; standard 10mm (.400") snap-in spacing
- Operating temperature range: -40°C to +85°C max. leakage current: 0.02CV (uA) or 3mA whichever is smaller • Can-Top safety vent
- ***Capacitor dimensions and lead spacing may vary***

CROSS REFERENCES: Aero M: LP/LPR; **Elna**: LP3/LP4; **Illinois Capacitor**: LBA/LPR; **Mallory**: LDX; **Marcon**: CEAWF; **Nichicon**: LLK/LLQ; **Panasonic**: TS-UP/TS-U; **Phillips** (MEPCO): 3487/3489; **Rubycon**: RSP; **Sprague**: 80D/82D; **United Chemicon**: SMG(VN)/SMH(VN)



115422

Part Number	Product Number	Capacitance	Voltage	Size (mm) D x L	Pricing 1	10	100
115351	SN220/200	220μF	200V	30 x 31	$.99	$.89	$.79
115377	SN470/200	470μF	200V	25 x 51	1.49	1.35	1.19
155889	SN560/200	560μF	200V	23 x 41	1.95	1.75	1.25
115422	SN4700/50	4,700μF	50V	30 x 51	1.75	1.55	1.25
115431	SN6800/50	6,800μF	50V	30 x 51	2.75	2.49	1.49
157737	SN10000/50	10,000μF	50V	35 x 40	3.95	3.49	2.95

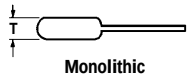
See page 63 for a selection of our Capacitor Grab Bags



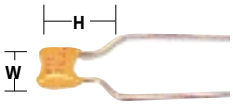
Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

Monolithic Ceramic Capacitors (±20%)
Ceramic Epoxy Dipped (Z5U Series)

Any Monolithic Ceramic Capacitor may be supplied in ammo style tape by special order – 1000 piece minimum



Monolithic



Applications: • Data processing
• Communications engineering
Operating temperature range: -10°C to +85°C
• Capacitor dimensions and lead spacing may vary
✳ **Prepackaged: please order in increments of 10, 100 or 1000**

Part Number	Product Number	Capacitance	Voltage	Size (mm) W x T x H	Pricing 1	10	100	1000	5000
81541	MD10	10pF	50V	3.5 x 2.0 x 3.0	✳	$.12	$.09	$.07	$.05
81533	MD22	22pF	50V	4.0 x 2.0 x 4.0	✳	.10	.08	.07	.04
81525	MD100	100pF	50V	3.5 x 2.0 x 3.0	✳	.09	.07	.035	.03
81517	MD.001	.001µF	50V	4.5 x 2.0 x 3.0	✳	.09	.07	.05	.035
138181	MD.0022	.0022µF	50V	4.0 x 2.0 x 5.5	✳	.09	.07	.05	.035
138202	MD.0047	.0047µF	50V	5.0 x 2.0 x 5.5	✳	.09	.07	.05	.035
25507	MD.01	.01µF	50V	3.5 x 2.0 x 3.0	✳	.11	.09	.07	.04
57621	MD.047	.047µF	50V	2.5 x 2.5 x 3.0	✳	.12	.09	.05	.04
25523	MD.1	.1µF	50V	6.0 x 2.0 x 4.0	✳	.13	.08	.06	.05
25540	MD.22	.22µF	50V	6.0 x 2.0 x 4.5	✳	.15	.12	.07	.05
138237	MD.33	.33µF	50V	6.0 x 2.0 x 8.0	✳	.20	.17	.11	.07
25558	MD.47	.47µF	50V	4.5 x 2.5 x 4.5	✳	.20	.15	.11	.07
81509	MD1	1µF	50V	6.0 x 3.0 x 7.0	.49	.39	.33	.27	.19

Check out our huge inventory of these hard-to-find capacitors

Dipped Tantalum Capacitors (±10%)

Resin Dipped Solid Tantalum Capacitors

- Flame retardant coating • Exceptional temperature stability
- Low leakage current • Moisture-resistant
- Designed for entertainment and commercial equipment



Operating temp. range	-55°C to +85°C (+125°C with derating)
Rated voltage DC	≤ + 85°C

Dipped Tantalum Capacitor Cross References

Panasonic: EF Series; **AVX:** Tap Series; **Sprague:** 196D and 199D; **Kemet:** T350/ T360; **Mepco:** 49GS; **NEC:** DN; **Nichicon:** 599; **NIC:** NDTM; **Hitachi:** TSD-3; **Matsuo:** 202

- ***Capacitor dimensions and lead spacing may vary***

✳ **Prepackaged: please order in increments of 10, 100 or 1000**

Part Number	Product Number	Capacitance	Voltage	Size (mm) D x H	Pricing 1	10	100	1000
33486	TM.1	.1µF	35V	4.5 x 7.0	✳	$.25	$.19	$.15
33507	TM.22	.22µF	35V	4.5 x 7.0	✳	.25	.19	.15
33523	TM.33	.33µF	35V	4.5 x 7.0	✳	.17	.13	.10
33531	TM.47	.47µF	35V	4.5 x 7.0	✳	.25	.19	.15
154860	TM1/25	1µF	25V	3.0 x 6.0	✳	.29	.25	.22
33662	TM1	1µF	35V	4.5 x 7.0	✳	.29	.25	.22
94001	TM2.2/16	2.2µF	16V	4.5 x 7.0	✳	.29	.25	.19
94019	TM2.2/25	2.2µF	25V	4.5 x 7.0	✳	.35	.29	.22
33734	TM2.2	2.2µF	35V	4.5 x 7.5	.39	.35	.29	.25
33769	TM3.3	3.3µF	35V	4.5 x 7.5	.55	.45	.39	.35
94035	TM4.7/16	4.7µF	16V	4.5 x 7.5	.39	.35	.29	.25
94043	TM4.7/25	4.7µF	25V	5.0 x 8.5	.49	.39	.35	.29
33806	TM4.7	4.7µF	35V	5.5 x 9.0	.59	.49	.39	.35
33873	TM6.8	6.8µF	35V	6.0 x 10.0	.65	.55	.45	.39
94060	TM10/16	10µF	16V	5.0 x 9.0	.45	.39	.29	.25
94078	TM10/25	10µF	25V	5.5 x 9.0	.59	.49	.39	.35
33689	TM10	10µF	35V	6.0 x 10.0	.89	.79	.69	.59
33718	TM15	15µF	25V	6.0 x 10.0	.89	.79	.69	.59
33751	TM22	22µF	6.3V	5.0 x 9.0	.69	.59	.49	.35
94094	TM22/16	22µF	16V	6.0 x 10.0	.69	.59	.49	.45
94107	TM22/25	22µF	25V	7.0 x 10.5	1.59	1.39	1.19	1.09
33785	TM33	33µF	25V	8.0 x 13.0	2.25	1.95	1.75	1.55
94123	TM47/16	47µF	16V	8.0 x 13.0	1.19	1.09	.99	.89
33822	TM47	47µF	25V	9.0 x 14.5	2.95	2.75	2.25	1.49
33700	TM100	100µF	6.3V	7.0 x 10.5	1.19	1.09	.85	.75

Ceramic Disc Capacitors (±20%)

25, 50 and 1000 Volt, Z5U Temperature Coefficient

Any Ceramic Disc Capacitors may be supplied in ammo-style tape by special order – 1000 piece minimum

- ***Capacitor dimensions and lead spacing may vary***

SALE

✳ **Prepackaged: please order in increments of 10, 100 or 1000**



Low Voltage 50VDC Ceramic

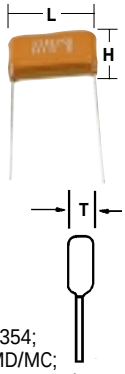
Operating temperature range	+10°C to +85°C
Cap. change over temp. range	+22% to -56%
Dielectric withstanding voltage	2.5 times rated volt. for not < 1 sec.

Part Number	Product Number	Capacitance	Voltage	Dia. (mm)	Pricing 1	10	100	1000	5000
135141	DC2.2	2.2pF	50V	5	✳	$.04	$.03	$.02	$.015
15333	DC10	10pF	50V	5	✳	.05	.035	.02	.015
15405	DC22	22pF	50V	6	✳	.05	.035	.02	.015
15510	DC47	47pF	50V	5	✳	.05	.035	.03	.02
15341	DC100	100pF	50V	5	✳	.05	.035	.02	.015
15413	DC220	220pF	50V	5	✳	.05	.035	.025	.015
15528	DC470	470pF	50V	5	✳	.05	.035	.03	.02
15190	DC.001	.001µF	50V	6	✳	.05	.035	.03	.02
97341	DC.0022/1K20	.0022µF	1000V	11	✳	.15	.10	.06	.04
15211	DC.0047	.0047µF	50V	6	✳	.05	.035	.03	.02
15229	DC.01	.01µF	50V	6	✳	.06	.04	.03	.02
97375	DC.01/1K20	.01µF	1000V	12	✳	.15	.10	.06	.04
15245	DC.022	.022µF	50V	8	✳	.07	.05	.04	.03
15253	DC.047	.047µF	50V	8	✳	.07	.05	.04	.03
151116	DC.1/25	.1µF	25V	6	✳	.12	.08	.06	.04
15270	DC.1	.1µF	50V	8	✳	.13	.10	.08	.05

Mylar Capacitors (±10%)

Metallized Polyester Film Capacitors

Any Mylar Capacitors may be supplied in ammo-style tape by special order – 1000 piece minimum



- High performance at low cost • Non-inductive construction

Operating temperature range	-40°C to +85°C
Dissipation factor	≤.01 (at 1kHz)
Dielectric strength	150% of rated voltage for 5 sec.

Mylar Capacitor Cross References

Panasonic: ECQ-E Series; **Sprague:** DF/450P/451P/453P; **Westlake:** 160/168/185/167/184/186; **Rubycon:** MC/MN; **Mepco:** 713A1/719A1/C280; **TRW:** X601PE/X601CPE; **Packtron:** MF/RB; **Secor:** MMKS/MMKR/MMDR; **RIFA:** PHE353/PHE354; **Roederstein:** MKT 1818/MKT 1822; **WIMA:** MKS; **CSF Thompson:** MD/MC; **Siemens:** B325X-XX; **NIC:** NEM/NRM; **Nichicon:** DDXM; **Phillips:** 712 A1 series

- ***Capacitor dimensions and lead spacing may vary***

† ±20% tolerance ✳ **Prepackaged: please order in increments of 10, 100 or 1000**

Part Number	Product Number	Capacitance	Voltage	Size (mm) L x T x H	Pricing 1	10	100	1000
26833	MY.001	.001µF	100V	7.0 x 3.0 x 7.0	✳	$.10	$.06	$.04
26868	MY.0022	.0022µF	100V	6.0 x 3.0 x 10.0	✳	.10	.06	.04
26876	MY.0047	.0047µF	100V	6.0 x 3.0 x 9.0	✳	.10	.06	.04
26884	MY.01	.01µF	100V	6.0 x 3.0 x 7.0	✳	.10	.06	.04
26905	MY.022	.022µF	100V	6.0 x 3.0 x 10.0	✳	.15	.10	.06
26921	MY.033	.033µF	100V	8.0 x 4.0 x 11.0	✳	.15	.10	.06
26930	MY.047	.047µF	100V	8.0 x 4.0 x 12.0	✳	.15	.10	.06
135562	MY.1/50	.1µF†	50V	14.0 x 6.0 x 12.0	✳	.13	.09	.05
26956	MY.1	.1µF	100V	12.5 x 5.0 x 9.5	✳	.17	.12	.07
93921	MY.1/250	.1µF	250V	12.5 x 5.5 x 10	✳	.19	.12	.07
135546	MY.22/50	.22µF	50V	17.0 x 9.0 x 16.0	✳	.17	.12	.07
26972	MY.22	.22µF	100V	12.5 x 5.5 x 10	✳	.19	.12	.07
93964	MY.33/250	.33µF	250V	18.0 x 7.0 x 12.5	.32	.25	.19	.15
26999	MY.47	.47µF	100V	18.0 x 6.0 x 11.5	.32	.25	.19	.15
27001	MY1	1µF	100V	18.0 x 7.5 x 14.0	.59	.49	.39	.25
93999	MY2.2/250	2.2µF	250V	26.0 x 9.0 x 16.0	.75	.65	.55	.45



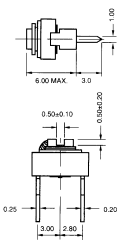
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5mm Ceramic Trimmer Capacitor

- Working voltage: 200VDC
- Withstand voltage: 400VDC
- Turning torque: 35~200 g-cm
- Operating temperature range: -30˚C~+85˚C
- Insulation resistance: >10MΩ min. @ 250VDC



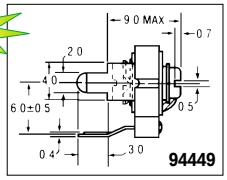


Part Number	Capacitance Range (pF)	Q Factor @ 1MHz	Color Codes	Pricing 1	10	100	1000
136979	9.0-50.0	> 200	Green	$.45	$.39	$.29	$.19

8mm .315" Ceramic Trimmer Capacitors (250WVDC) Thru Hole



134818



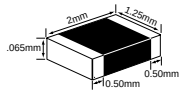
94449

- Working voltage: 250VDC
- Withstand voltage: 550VDC
- Turning torque: 40~200 g-cm
- Operating temperature range: -55˚C~+85˚C
- Insulation resistance: 10MΩ min. @ 250VDC

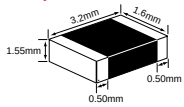
Part Number	Capacitance Range (pF)	Q Factor @ 1MHz	Color Codes	Pricing 1	10	100	1000
134818	3.5–13.0	> 300	Ivory	$.49	$.39	$.25	$.19
32838	4.0–34.0	> 300	Yellow	.99	.79	.59	.39
32854	6.0–70.0	> 200	Nil	1.05	.85	.65	.45
94449	8.5–100	> 200	Purple	.85	.65	.49	.35
94465	8.5–120	> 200	Nil	.99	.79	.59	.39

Multilayer Ceramic Chip Capacitors (Surface Mount)

Any surface mount Ceramic Chip Capacitor may be special ordered – 3000 piece minimum.



0805 SMT CASE



1206 SMT CASE

X7R SERIES (±10%)

0805 SMT Case			Pricing per each				
Part Number	Capacitance	Volt.	100 pc. Increments	500	1000	OEM Reels 3000	5000
87311	.01µF	50	$.12	$.09	$.07	—	$.05
87370	.1µF	25	.15	.12	.10	.08	—

1206 SMT Case			Pricing per each				
Part Number	Capacitance	Volt.	100 pc. Increments	500	1000	OEM Reels 3000	5000
87329	.01µF	50	$.15	$.13	$.11	—	$.09
87388	.1µF	50	.19	.17	.15	.11	—
87396	.22µF	25	.25	.22	.19	.15	—

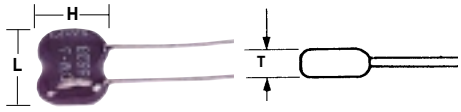
Z5U SERIES (±20%)

0805 SMT Case			Pricing per each			
Part Number	Capacitance	Voltage	100 pc. Increments	100	500	OEM Reels 1000
87177	.1µF	50	$.12	$.07	$.05	$.03

1206 SMT Case			Pricing per each			
Part Number	Capacitance	Voltage	100 pc. Increments	500	1000	OEM Reels 5000
87185	.1µF	50	$.15	$.12	$.09	$.07
87206	.22µF	50	.10	.07	.06	.04
87222	.47µF	50	.25	.22	.19	.15

Dipped Silver Mica Capacitors (±5%)

Metallized Polyester Film Capacitors



* Capacitor size and lead spacing may vary

Case type	DM15
Lead space (in.)	.23
Tolerance	± 5%
Operating temperature range	-55°C to +125°C
Size (mm) – L x T x H (may vary)*	11 x 4 x 9

Part Number	Product Number	Capacitance	Voltage	Pricing 1	10	100	1000
15991	DM100	10pF	500V	$.49	$.39	$.29	$.25
16037	DM220	22pF	500V	.45	.35	.25	.19
16070	DM330	33pF	500V	.45	.35	.25	.19
16096	DM470	47pF	500V	.45	.35	.25	.19
16002	DM101	100pF	500V	.45	.35	.25	.19
16088	DM331	330pF	500V	.59	.49	.29	.25
16109	DM471	470pF	500V	.65	.55	.49	.39
16011	DM102	1000pF	100V	.85	.75	.65	.55

Memory Back-Up Capacitors

Applications:

- Back-up on CMOS microcomputers, static RAM, DTSs (digital tuning systems)
- Memory back-up of remote controllers



142922

Features:

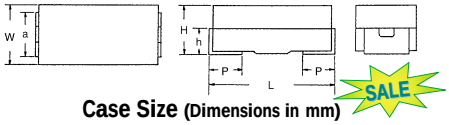
- Excellent voltage holding characteristics for low back-up currents
- Small size vs. capacitance
- Voltage: 5.5VDC
- Capacitance ranges from .047 to 1F

Capacitor dimensions and lead spacing may vary

Part No.	Product No.	Cap. (Farad)	1	10	100
142922	MBC.047/5.5	.047	$1.95	$1.75	$1.49
142949	MBC.22/5.5	.22	1.89	1.69	1.29
143010	MBC.47/5.5	.47	2.49	1.95	1.49
142957	MBC1.0/5.5	1.0	3.95	3.49	2.95

Resin Molded Chip Tantalum Electrolytic Capacitors (±20%)

Any surface mount Tantalum Chip Capacitor may be special ordered – 2000 piece minimum.



Case Size (Dimensions in mm)

EIA CASE CODE	L ±0.2	W ±0.2	H ±0.2	P ±0.3	a ±0.2	h(min)
A (3216)	3.2	1.6	1.7	0.8	1.2	0.7
B (3528)	3.5	2.8	1.9	0.8	2.0	0.7
C (6032)	6.0	3.2	2.5	1.3	2.0	1.0
D (7343)	7.3	4.3	2.9	1.3	2.4	1.0

10V SMT Tantalum			Pricing per each				
Part Number	Capacitance	Case Size	10 pc. Increments	100	500	OEM Reels 500	2000
87020	10µF	B	$.59	$.49	$.39	—	$.29
87118	100µF	D	.99	.89	—	.75	—

16V SMT Tantalum			Pricing per each				
Part Number	Capacitance	Case Size	10 pc. Increments	100	500	OEM Reels 500	2000
86932	1µF	A	$.39	$.35	$.28	—	$.19
87038	10µF	C	.59	.49	—	.42	—
87100	47µF	D	1.09	.99	—	.89	—

SMD Resistor Assortment (±5%)

144 Values, 50 pcs. each; 7,200 Pieces Total



- Surface mount 0805 resistors, 144 values ranging from 1.2Ω to 10MΩ (50 pieces of each value)
- Size: L x W (mm) 2.0 x 1.25
- Thickness: 0.5mm
- Max. overload voltage: 200V
- Operating temp.: -50˚C to 120˚C
- Weight: 1.9 lbs
- Case size (two cases): 10.5"L x 6.7"W x 1.7"T

Resistance Value Chart:

1.2	33	430	4.3K	51K	620K
1.6	39	470	4.7K	56K	750K
2.2	43	510	5.6K	62K	820K
2.4	47	560	6.2K	68K	910K
2.7	51	620	6.8K	75K	1.0M
3.0	56	680	7.5K	82K	1.6M
3.3	62	750	8.2K	91K	1.8M
4.3	68	820	9.1K	100K	2.0M
4.7	75	910	10K	110K	2.2M
5.1	85	1.0K	11K	120K	2.4M
5.6	91	1.1K	12K	150K	2.7M
6.2	110	1.2K	13K	160K	3.0M
6.8	120	1.3K	15K	180K	3.3M
7.5	130	1.5K	16K	200K	3.6M
8.2	150	1.6K	18K	220K	3.9M
9.1	160	1.8K	20K	240K	4.3M
10	180	2.0K	22K	270K	4.7M
16	200	2.2K	24K	300K	5.1M
18	220	2.4K	27K	360K	5.6M
20	240	2.7K	30K	390K	6.8M
22	270	3.0K	33K	430K	7.5M
24	300	3.3K	36K	470K	8.2M
27	360	3.6K	39K	510K	9.1M
30	390	3.9K	43K	560K	10M

Includes: Case with labels

Part No.	Product No.	1	10	25
172806	16-500	$69.95	$62.95	$56.95

SMD Resistor Assortment (±1%)

56 Values, 200 pcs. each; 11,200 pcs.Total



Packaged in strips of 200 pieces each

Surface mount 1206 resistors, 56 values ranging from 10Ω to 1MΩ – see chart.

- Max. working voltage: 200V
- Max. overload voltage: 400V
- Power @ 70˚C: 1/8W
- Operating temp.: -55˚C to +125˚C
- Resistor dimensions (mm): 3.10±0.10L x 1.55±0.10 W x 0.55±0.10–0.05H top terminator: 0.45±0.20W bottom terminator: 0.35±0.15W
- Temp. coefficient: ±100 ppm/˚C
- 4-digit indication: 1st 3 significant, 4th multiplier

Value Chart (Ohms)

10	100	1K	10K	100K
12.1	121	1.21K	12.1K	121K
15	150	1.5K	15K	150K
20	200	2K	20K	200K
24.3	243	2.43K	24.3K	243K
30.1	301	3.01K	30.1K	301K
39.2	392	3.92K	39.2K	392K
49.9	499	4.99K	49.9K	499K
61.9	619	6.19K	61.9K	619K
75	750	7.5K	75K	750K
90.9	909	9.09K	90.9K	909K

Part No.	Product No.	1	10	25
156881	SMR1206SB	$99.95	$89.95	$79.95

SMD Plastic Fliptop Case

Store 128 Different Surface Mount Components



- Perfect match to store P/N 156881 SMD resistor assortment, above
- 8 rows x 16 column grid
- Fliptop openings on each bin
- Color: gray
- Padded cover locks bins closed
- Size: 11.0"L x 8.3"W x 1.7"Thick
- Weight: 1.4 lbs.



Includes: Labels for each bin

Part No.	Description	1	10
164267	SMD fliptop case	$44.95	$39.95

For additional Fliptop Boxes see page 61



1/4 Watt Carbon Film Resistors (±5%)

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT



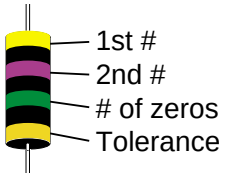
Single Value Bulk: 1/4-Watt Carbon Film Resistors (±5%)

To order: Use 5-digit part number adjacent to ohms in chart below
Values may not be combined for quantity price breaks

$.99/bag 100 piece bags

Part No./Ohms (see Standard Resistor Value Chart below)	Pricing (Per value: Sold in bags of 100 pieces) 1	10	50	100
	$.99/bag	$.79/bag	$.69/bag	$.59/bag

Resistor Color Code



1st & 2nd Band	3rd Band		4th Band
0 - Black	Black	1	Gold - ±5%
1 - Brown	Brown	10	
2 - Red	Red	100	
3 - Orange	Orange	1,000	
4 - Yellow	Yellow	10,000	Silver - ±10%
5 - Green	Green	100,000	
6 - Blue	Blue	1,000,000	
7 - Violet	Silver	0.01	
8 - Gray	Gold	0.1	No Band - ±20%
9 - White			

Assortments: 1/4-Watt Carbon Film Resistor (±5%)

Part No.	Product No.	Description	1	10	25
10719	ASST8	5 each of 70 values (every other value from 10 ohm-5.6 MΩ) (350 pcs.)	**$8.95**	**$7.95**	**$6.49**
103165	ASST30	10 each of 24 values marked by (●) and 50 each of 6 values marked by (✕) (540 pcs.)	**12.95**	**11.49**	**9.95**
10663	ASST27	100 each of 27 values marked by (▲) (2,700 pcs.)	**19.95**	**17.95**	**15.95**
10655	ASST161	100 each of 160 values (all resistor values in the chart below) (16,000 pcs.)	**109.95**	**99.95**	**89.95**
81832	CAB14R	1/4 watt resistor component cabinet kit – 30 values (540 pcs.) see page 62	**27.95**	**24.95**	**22.49**

Standard Resistor Values Chart

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
†	2.2	**29882**	10 ▲●	**31106**	47 ▲●	**30470**	220 ▲✕	**29663**	1.0K ▲✕	**31026**	4.7K ▲✕	**30453**	22K ▲●	**29997**	100K ▲✕	**31202**	470K ▲●	†	2.2M
†	2.4	†	11	†	51	†	240	†	1.1K	**31237**	5.1K ▲●	†	24K	†	110K	†	510K	†	2.4M
†	2.7	†	12	†	56	**30605**	270 ▲●	**29735**	1.2K ●	**31270**	5.6K ▲●	†	27K	†	120K	†	560K	†	2.7M
†	3.0	†	13	†	62	†	300	†	1.3K	†	6.2K	†	30K	†	130K	†	620K	†	3.0M
†	3.3	†	15	†	68	**30867**	330 ▲●	**29760**	1.5K ▲●	†	6.8K	**30841**	33K ▲●	†	150K	†	680K	†	3.3M
†	3.6	†	16	†	75	†	360	†	1.6K	†	7.5K	†	36K	†	160K	†	750K	†	3.6M
†	3.9	†	18	†	82	**30963**	390 ●	†	1.8K	†	8.2K	†	39K	†	180K	†	820K	†	3.9M
†	4.3	†	20	†	91	†	430	**30277**	2.0K ▲●	†	9.1K	†	43K	†	200K	†	910K	†	4.7M
†	4.7	†	22	**29946**	100 ▲✕	**31165**	470 ▲●	**30314**	2.2K ▲●	**29911**	10K ▲✕	**31149**	47K ▲●	**30525**	220K	**29698**	1.0M ▲●	†	5.1M
†	5.1	†	24	†	110	†	510	†	2.4K	†	11K	†	51K	†	240K	†	1.1M	†	5.6M
†	5.6	†	27	**30082**	120	**31376**	560	**30390**	2.7K ▲●	†	12K	†	56K	†	270K	†	1.2M	†	6.2M
†	6.2	†	30	†	130	†	620	†	3.0K	†	13K	†	62K	†	300K	†	1.3M	†	6.8M
†	6.8	†	33	**30162**	150 ▲●	**31499**	680 ▲●	**30672**	3.3K ▲●	**30146**	15K ▲●	†	68K	†	330K	†	1.5M	†	7.5M
†	7.5	†	36	†	160	†	750	†	3.6K	†	16K	†	75K	†	360K	†	1.6M	†	8.2M
†	8.2	†	39	†	180	†	820	†	3.9K	†	18K	†	82K	†	390K	†	1.8M	†	9.1M
†	9.1	†	43	†	200	†	910	†	4.3K	†	20K ●	†	91K	†	430K	†	2.0M	**29938**	10M ▲●

Any value with part number is a stock item. † Any standard resistor value above (without part number) may be special ordered – 1,000 pc. minimum – $10.95/K (bulk)

1/8 & 1/2 Watt Carbon Film Resistors (±5%)

1/8 & 1/2 Watt Resistor Assortments Value Chart (Ohms)

10 ✓✗	150 ✓✗	330 ✓✗	680 ✓✗	2.0K ✓✗	3.3K ✓✗	5.6K ✓✗	15K ✓✗	33K ✓✗	470K ✓✗
47 ✓✗	220 ✓#	390 ✗	1.0K ✓#	2.2K ✓✗	4.7K ✓#	6.8K ✗	22K ✓✗	47K ✓✗	1.0M ✓✗
100 ✓#	270 ✓✗	470 ✓✗	1.5K ✓✗	2.7K ✓✗	5.1K ✓✗	10K ✓#	27K ✗	100K ✓#	10M ✓✗

(✓), (✗), (#) symbols indicate Resistor values included in Assortments below.

1/8 Watt Carbon Film Resistor (±5%) Assortments

Any standard resistor value (above) may be special ordered –
1,000 pc. minimum – $12.95/K (bulk) – call for larger quantity pricing.

Part No.	Product No.	Description	1	10
108302	ASST1830	10 each of 24 values marked by ✗ and 50 each of 6 values marked by # (540 pcs.) (see chart above)	**$12.95**	**$11.49**
108290	ASST1827	100 each of 27 values marked by ✓ (2,700 pcs.) (see chart above)	**25.95**	**23.95**
108329	CAB182R	1/8 watt resistor component cabinet kit – 30 values (540 pcs.) see page 62	**27.95**	**24.95**

1/2 Watt Carbon Film Resistor (±5%) Assortments

Any standard resistor value (above) may be special ordered –
1,000 pc. minimum – $15.95/K (bulk) – call for larger quantity pricing.

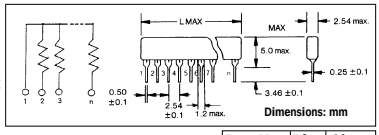
Part No.	Product No.	Description	1	10
107836	ASST1270	5 each of 70 values (every other value from 10 ohm-5.6M ohm)(350 pcs.)(see chart – top of page)	**$10.95**	**$9.95**
107852	ASST1230	10 each of 24 values marked by ✗ and 50 each of 6 values marked by # (540 pcs.) (see chart above)	**14.95**	**13.49**
107844	ASST1227	100 each of 27 values marked by ✓ (2,700 pcs.) (see chart above)	**29.95**	**26.95**
107861	ASST12161	100 each of 161 values (resistor values chart – top of page) 1/2 watt carbon film resistors (16,100 pcs.)	**119.95**	—
107879	CAB12R	1/2 watt resistor component cabinet kit – 30 values (540 pcs.) (see page 62)	**29.95**	**26.95**

Resistor Networks (±2%)

Single-In-Line "SIP" Resistor Networks

8 and 10-Pin Bussed (25mW/Resistor) ±2%

Features (8BRN/10BRN):
- Rated power per resistor at 70°C: 125mW/ resistor
- Operating temp. range: -55°C to +125°C
- Resistance temperature coefficient: 200ppm/°C
- Max. working voltage: 100V or rated power x resistance, whichever is smaller
- Insulation resistance: 10,000MΩ min. at 100V
- Solderability: per MIL-R-83401
- 8-pin package (7 resistors) = **8BRN**
  10-pin package (9 resistors) = **10BRN**
- Low profile 5mm (.200" body height)
- Low profile is compatible with DIPs
- Cermet thick film construction





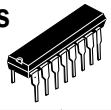
✳ 10 piece minimum

Pricing per each 1	10	100	1000
✳	$.19	$.15	$.12

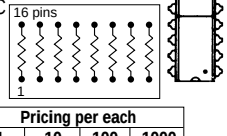
Part No.	Pins	Ohms
97826	8	10K
97851	10	330
97869	10	470
97877	10	1.0K
97893	10	2.2K
24660	10	4.7K
24643	10	10K
98087	10	47K
98095	10	100K

Dual-In-Line "DIP" Resistor Networks

16-Pin Isolated (140mW/Resistor) ±2%



Features (16IRN):
- Maximum operating voltage: 100V
- Tolerance: ±2%
- Temperature coefficient: ±100ppm/°C
- Operating temperature: -55°C to +125°C
- Insulation resistance: 10,000MΩ min.
- Lead solderability / Solvent resistance: meets requirements of MIL-R-83401
- Power rating at 70°C: 2.25 watts
- Compatible with automatic insertion equipment
- Copper leads for excellent heat dissipation



Pricing per each 1	10	100	1000
$.59	$.49	$.39	$.29

Part No.	Ohms
164005	33
108556	100
108564	220
108572	330
108581	470
108599	1.0K
108610	4.7K
108628	10K
108644	100K

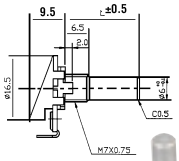
SIP and DIP Resistor Network Cross Reference Chart

Jameco	CTS	A – B	Bourns	Dale	Beckman	Sprague	MEPCO
8BRN…	770-81-R…	708A…	4608X-101…	CSC08A01…	L08-1-R…	356CF… X2PD	9S08… GL002
10BRN…	770-101-R…	710A…	4610X-101…	CSC10A01…	L10-1-R…	256CX … X2PD	9S10… GL002
16IRN…	761-3-R…	316B…	4116R-001…	MDP16-03…	898-3-R…	916C… X5SR	D16H… 12-J

Call for pricing on quantities over 500 – we carry major manufacturers.

0.2 Watt Linear Taper Potentiometer (±20%)

- Number of detents: 10
- Shaft diameter: 0.235"
- Shaft length: 0.605"
- Insulation resistance: 100MΩ @ 500VDC
- Mounting hole: .27"
- Max. panel thickness: 0.15"
- Max. operating voltage: 150VAC
- Rotational life: 15,000 cycles





Includes: Mounting hardware

Part No.	Product No.	Ohms	1	10	100	500
163563	PMD401	10k	$1.25	$1.09	$.99	$.79

1/4 Watt Miniature Linear Potentiometers (±20%)

X201 (19/32") Vertical Mount

- 15mm thick
- Voltage rating: 350 VDC
- Reliable CTS composition resistance element
- Power rating:
  below 5kΩ – 1/4 watt @ 40°C
  5kΩ & above – 1/4 watt @ 55°C
- Total rotation: 260° ±5°

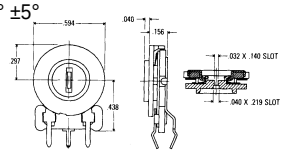
SALE



94692

Cross Reference Chart

Equivalent to:	
CTS	X201R
Bourns	3355X
PIHER	PT15



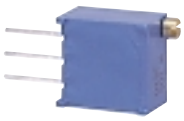
Part No.	Product No.	Ohms	1	10	100	500
161859	X201R150	150	$.12	$.10	$.08	$.06
94684	X201R500	500	.12	.10	.08	.06
94692	X201R1K	1k	.45	.35	.29	.25
35502	X201R252B	2.5k	.33	.27	.15	.065
94705	X201R5K	5k	.39	.32	.25	.17
94713	X201R10K	10k	.45	.35	.25	.19
172136	X201R25K	25k	.07	.06	.05	.04
94721	X201R50K	50k	.12	.10	.08	.06
94730	X201R100K	100k	.45	.35	.29	.25

Potentiometers (±10%)

- Resistance tolerance: ±10%
- Insulation resistance: (500VDC) 1,000MΩ min.

Series 3299:

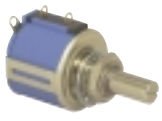
- 25-turn; cermet type
- Absolute minimum resistance: 2Ω or 1% max.
- Load life: 200 cycles, 0.5W



Series 3299

Series 3540:

- 10-turn; wirewound
- Absolute minimum resistance: 1Ω or 0.1% max.
- Load life: 1,000 hours, 2W



Series 3540

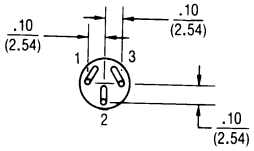
Part No.	Product No.	Ohms	1	10	50
183556	3299W-102	1k	$2.95	$2.75	$2.49
183564	3299W-103	10k	2.95	2.75	2.49
183572	3299W-104	100k	2.95	2.75	2.49
183513	354OS-1-102	1k	13.49	11.95	10.95
183530	354OS-1-202	2k	13.49	11.95	10.95
183548	354OS-1-502	5k	13.49	11.95	10.95
183521	354OS-1-103	10k	13.49	11.95	10.95

1/2 Watt, 1/4" Round, Single-Turn Cermet Potentiometers (±10%)

- Sealed to withstand wave soldering and immersion cleaning process
- Extended temperature range: -55°C to +150°C • TO-5 grid
- Top adjustment
- Terminals: solderable pins

Cross Reference Chart

Equivalent to:	
Beckman	82M
Bourns	3329P
Mepcopal	8050
MEC	471
Murata	3321P
Spectrol	62-3
VRN	171
Weston	567





95484

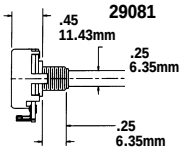
Part No.	Product No.	Ohms	1	10	100	500
95441	3329P1K	1k	$.99	$.79	$.55	$.45
95450	3329P5K	5k	.89	.65	.45	.35
96719	3329P10K	10k	.99	.79	.55	.45
95484	3329P100K	100k	.99	.79	.55	.45

1/2 Watt Linear Taper Potentiometers (±10%)



29081

- Temperature range: -55°C to +125°C
- Non-rotational key
- Non-slotted shaft end
- Mounting hole: 0.3125"
- Shaft diameter: 0.25"
- Shaft length: 0.5625"
- Max. panel thickness: 0.1875"



Includes: Mounting hardware

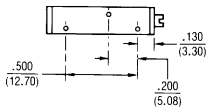
Part No.	Product No.	Ohms	1	10	100	500
29049	P1K	1k	$.99	$.79	$.65	$.55
29196	P5K	5k	.99	.79	.65	.55
29081	P10K	10k	.99	.79	.65	.55
29102	P100K	100k	.99	.79	.65	.55
29065	P1MEG	1M	.99	.79	.65	.55

3/4 Watt, 3/4" Rectangular 15-Turn Cermet Potentiometers (±10%)

- PC pins: .100" grid (2.54mm)
- Side adjusting
- Sealed to guard against contaminants
- Temp. range: -55°C to +125°C

Cross Reference Chart

Equivalent to:	
Beckman	89PR
Bourns	3006P
Mepcopal	8034
Murata	2101P
Spectrol	43P
VRN	961-20
Weston	830P



41911



Part No.	Product No.	Ohms	1	10	100	500
181972	43P201	200	$1.15	$.95	$.75	$.59
41937	43P500	500	1.15	.95	.75	.59
41785	43P1K	1k	1.15	.95	.75	.59
41865	43P2K	2k	1.15	.95	.75	.59
41890	43P5K	5k	1.15	.95	.75	.59
41822	43P10K	10k	1.15	.95	.75	.59
41873	43P20K	20k	1.15	.95	.75	.59
41911	43P50K	50k	1.15	.95	.75	.59
41849	43P100K	100k	1.15	.95	.75	.59
63001	43P200K	200k	.95	.85	.65	.49
41953	43P500K	500k	1.15	.95	.75	.59
41806	43P1MEG	1M	1.15	.95	.75	.59

2 Watt Linear Taper Potentiometers (±20%)

- Temp. range: -10°C to +70°C
- Shaft diameter: 0.25"
- Shaft length: 0.825"
- Mounting hole: 0.375"
- Non-rotational key
- Base length: 0.25"
- See knobs, pg 60



123959

Includes: Mounting hardware

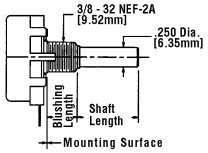
Part No.	Product No.	Ohms	1	10	100	500
123959	PT1K	1k	$2.95	$2.49	$2.25	$1.75
123967	PT5K	5k	2.95	2.49	2.25	1.75

2 Watt 53C3 Linear Taper Potentiometer Series (±10%)

- 2 watts @ 70°C ambient
- Conductive plastic element
- Military No.: RV4N-AYSD
- Temperature range: -55°C to +120°C
- Shaft diameter: 0.25"
- Shaft length: 0.875" (7/8")
- Slotted shaft end
- Mounting hole: 0.375"
- Max. panel thickness: 0.25"
- Bushing length: 0.35"
- Non-rotational key
- See knobs page 60



95417



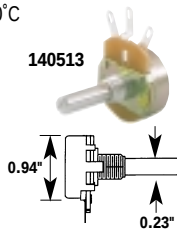
Includes: Mounting hardware

Part No.	Product No.	Ohms	1	10	50	100
183610	53C3-500	500	$7.95	$6.95	$5.95	$5.25
13936	CMU1021	1k	7.95	6.95	5.95	5.25
13995	CMU5021	5k	7.95	6.95	5.95	5.25
13952	CMU1031	10k	7.95	6.95	5.95	5.25
95417	CMU5031	50k	7.95	6.95	5.95	5.25
13979	CMU1041	100k	7.95	6.95	5.95	5.25

5 Watt Linear Taper Wire Wound Potentiometers (±20%)

- Temperature range: -10˚C to 70˚C
- Shaft diameter: 0.23" (6mm)
- Shaft length: 0.67", except P/N 140521 (0.25")
- Mounting hole: 0.32"
- Max. panel thickness: 0.1"
- Solder eyelet diameter: 0.055" x 0.13"
- Non-rotational key

140513



Includes: Mounting hardware

Part No.	Product No.	Ohms	1	10	50	100
140513	PW5B100	100	$2.95	$2.49	$1.95	$1.75
140521	PW5B500	500	3.39	2.95	2.49	2.29

OHMITE 25 Watt Rheostat and Accessories



183695



183687



183679

183695: 1kΩ wirewound rheostat; 25W
183687: 2.2" dia. circular dial (.38" dia. shaft)
183679: ¼" shaft finger grip knob; 1.5" diameter

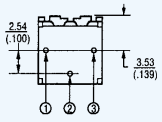
Part No.	Product No.	1	10	50
183695	RHS1K0	$22.95	$20.49	$18.49
183687	5000	1.59	1.45	1.29
183679	5150	6.95	6.25	5.63

Place an Order with Jameco 24/7/365

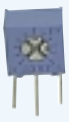
Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

1/2 Watt Trimming Potentiometers (±10%)

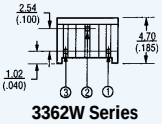

191644



3362P Series

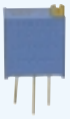

182879

- Resistance tolerance: ±10%
- Absolute min. resistance: 1% or 2Ω max.
- Contact resistance variation: 1% or 1Ω max.
- Insulation resistance: 500VDC; 1,000MΩ min.
- Rotational life: 200 cycles
- Terminals: solderable pins
- Wiper positioning: 50% nominal



3362W Series

SALE


191409

3362P Series

- 1/4" top adjustment angle: 240˚ nominal
- 189341: Manufacturer – Copal

Part No.	Product No.	Ohms	1	10	100	500
191644	3362P1-200	20	$.69	$.59	$.49	$.39
189341	CT6P-500	50	.69	.59	.49	.39
182810	3362P1-501	500	.69	.53	.33	.23
182828	3362P1-502	5k	.69	.53	.42	.32
182836	3362P1-103	10k	.79	.65	.55	.45
182844	3362P1-204	200k	.79	.58	.47	.36
182852	3362P1-105	1M	.79	.58	.47	.36

3362W Series

SALE

- 1/4" side adjustment single turn

Part No.	Product No.	Ohms	1	10	100	500
182879	3362W1-201	200	$.69	$.53	$.42	$.32
182887	3362W1-501	500	.69	.53	.42	.32
182895	3362W1-102	1k	.69	.53	.42	.32

3299Y Series

NEW

- 3/8" square, 25-turn potentiometer
- Load Life: 1,000 hours 0.5W @ 70˚C
- Wipers set @ CW end

Part No.	Product No.	Ohms	1	10	50
191417	3299Y501	500	$2.75	$2.49	$2.25
191396	3299Y102	1k	2.75	2.49	2.25
191425	3299Y502	5k	2.75	2.49	2.25
191409	3299Y104	100k	2.75	2.49	2.25

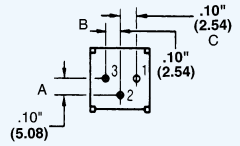
1/2 Watt, 3/8" Square, Single-Turn Cermet Potentiometers (±10%)

- 1/2 watt linear taper @ 70°C
- PC pins: .100" grid (2.54mm)
- TO-5 grid • Top adjusting
- Sealed to guard against contaminants
- Temp. range: -55°C to +125°C

† Dimension A = .20"

Cross Reference Chart

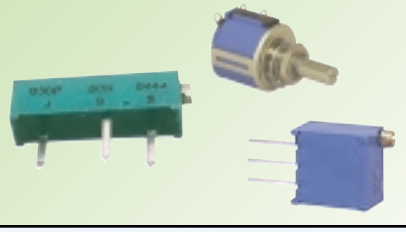
Equivalent to:	
Beckman	72PR
Bourns	3386P
Mepcopal	8038
Murata	3104P
Spectrol	63P
VRN	780-12P
Weston	840P




42964

Part No.	Product No.	Ohms	1	10	100	500
43123	63P500	500	$.79	$.65	$.55	$.45
42964	63P1K	1k	.79	.65	.55	.45
43043	63P2K	2k	.79	.65	.55	.45
43078	63P5K	5k	.79	.65	.55	.45
43001	63P10K	10k	.79	.65	.55	.45
43051	63P20K	20k	.79	.65	.55	.45
43107	63P50K	50k	.79	.65	.55	.45
43027	63P100K	100k	.79	.65	.55	.45
43060	63P300K †	300k	.79	.65	.49	.29
63212	63P500K	500k	.79	.65	.55	.45
42981	63P1MEG	1M	.79	.65	.55	.45
105216	63P2MEG †	2M	.79	.59	.42	.24

For more Potentiometers — see page 27



Modem Coupling Transformer



- Impedance (primary/secondary): 600Ω/600Ω
- Resistance (primary/secondary): 87Ω/108Ω
- Measuring frequency: 1kHz, 1VDC bias 90mA
- Frequency response: ±2dB @ 300-600Hz; ±0.75dB @ 600-3500Hz

Part No.	Product No.	1	10	100
167169	TL1919	$1.39	$1.15	$.89

Modem Coupling Transformers

- Pri./Sec. impedance: 600Ω
- Dielectric strength: 1250VAC
- UL/CSA approved

141621: (Midcom equivalent)

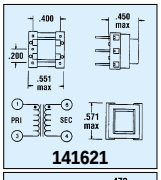
- Insertion loss: 1.25dB @ 1kHz
- Resistance (Pri./Sec.): 46.5Ω/67.6Ω

117760: Midcom

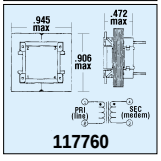
- DC current: 30mA
- Insertion loss: 2.5dB @ 1kHz
- Resistance (Pri./Sec.): 108Ω/120Ω

173921: Midcom

- Insertion loss: 0.75dB ±0.25 dB @ 1kHz
- Resistance (Pri./Sec.): 25.1Ω/20.3Ω



141621



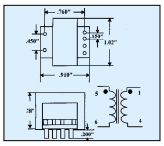
117760

Part No.	Product No.	1	10	100
141621	671-8255 (Equiv.)	$1.95	$1.75	$1.49
117760	671-8014 (Midcom)	1.95	1.75	1.49
173921	671-8000 (Midcom)	.85	.75	.65

Voice/Data Coupling Transformer

- Pri./Sec. impedance: 600Ω
- Resistance (Pri./Sec.): 63Ω/88Ω
- Turns ratio: ±2%
- Frequency response: 300-3500Hz (±0.5dB)

SALE

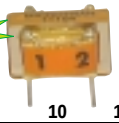


Part No.	Product No.	1	10	100
164128	SPT115	$.36	$.33	$.29

MicroTran Voice/Data Coupling Transformer

- Pri./Sec. impedance: 600Ω
- Primary resistance: 66Ω
- Secondary resistance: 102Ω
- Size: 0.4"L x 0.6"W x 0.5"H

SALE

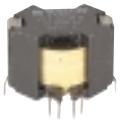


Part No.	Product No.	1	10	100
183767	T1104	$12.95	$11.49	$9.95

ISDN Transformer

- DC resistance: pins 2 and 7: 13.5Ω; pins 5 and 4: 7.5Ω; pins 6 and 3: 9.5Ω (max.)
- Turns ratio: 1:0.75
- Dielectric withstanding voltage: 60Hz, 1 min. 200Vrms

SALE

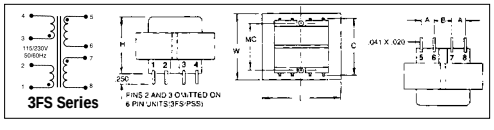


Part No.	Product No.	1	10	100
172081	PT4084	$.30	$.27	$.24

Split-Bobbin Power Transformers

- Input voltage: 115/230
- Primary: 115/230 @ 50/60Hz


183741



3FS Series

Part Number	Product Number	Signal Equivalent	VA Cap	Individual Output	Parallel Output	Series Output	Dimensions (L" x W" x H")	Pricing 1	Pricing 10
183732	3FS-312	ST3-12	2.4	6.3 @ 0.4	6.3 @ 0.2	12.6 @ 0.2	1.4 x 1.2 x 1.0	$6.95	$6.49
183741	3FD416	DST4-16	6.0	8.0 @ 0.8	8.0 @ 0.4	16.0 @ 0.4	1.7 x 1.4 x 1.4	7.95	6.95
183759	3FD420	DST4-20	6.0	10.0 @ 0.6	10.0 @ 0.3	20.0 @ 0.3	1.7 x 1.4 x 1.4	7.95	6.95

Audio Transformers

- Vacuum wax impregnated
- Insulation resistance: 100MΩ
- Hipot tested: 100VAC
- ±20% impedance matching
- ±20% DC resistance matching


125356

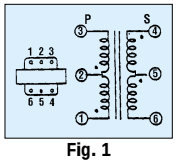


Fig. 1

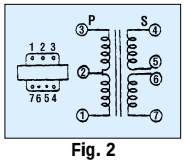


Fig. 2

Part Number	Product Number	Color	Fig.	Impedance (Ω) Primary	Impedance (Ω) Secondary	Resistance (Ω) Pri.	Resistance (Ω) Sec.	Core Type	Dimensions H"	Dimensions W"	Dimensions D"	Pricing 1	Pricing 10	Pricing 100
125356	XFR6006A14	Blue	1	600CT	600CT	65	55	EI-14	0.43	0.57	0.55	$1.35	$1.22	$1.09
125401	XFR60066A14	Blue	2	600CT	600/600	72	56/56	EI-14	0.43	0.57	0.55	1.35	1.22	1.09
170077	TL018	Green	1	7000CT	1000CT	400	385	EI-14	0.45	0.59	0.50	.99	.89	.69

Jameco stocks a huge selection of Transformers and Power Supplies. See pages 67-82 for more details.

5VA and 10VA Class 1 Current Transformers

This series can be applied to test, control, display, and record the running of electrical equipment, and to protect the equipment against damage in the AC circuit.


174887

174887: • Ratio 200A/5A; 5VA
174895: • Ratio 400A/5A; 10VA
• Maximum voltage: 660VAC
• Frequency: 50/60Hz
• Size: 3.0"L x 3.2"W x 1.6"Thick • Weight: 1.1 lbs.

SALE

Includes: Mounting bracket and hardware

Part No.	Product No.	Power	1	10	100
174887	MSQ30	5VA	$4.25	$3.82	$3.44
174895	MSQ40	10VA	3.25	2.95	2.65

Magnetek Current Sensing Transformers

- Designed for switching power supply applications
- Operating frequency range of 20kHz to 200kHz
- Used to detect current passing through a conductor

SALE



Part No.	ET VuSEC (20kHz)	Turns Count	Min. Ind. (mH)	DCR Max. (Ω)	Pri. Amps (RMS)
168786	4000	200	56.0	3.50	80.0
168778	6000	300	130.0	12.40	70.0

Part No.	Magnetek No.	1	10	100
168786	CST206-2A	$.49	$.45	$.39
168778	CST206-3T	.55	.49	.45

Coilcraft Current Sensing Transformer

1 Volt/1 Amp



- Sensed current max.: 10A
- Sensitivity voltage (Vout): 1V
- Sensitivity current (Iin): 1A
- Frequency range: 20-50kHz
- Turns: 50 • Inductance: 50mH
- Terminating resistor: 50Ω
- Size: 0.77"L x 0.57"W x 0.75"H

SALE

Part No.	Product No.	1	10	100
154659	CS4050V	$.85	$.75	$.65

Current Sensing Transformer

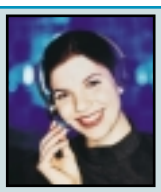
1 Volt/1 Amp



- Max. current: 300mA (terminals 1 & 3)
- Sensitivity voltage (Vout): 1V
- Sensitivity current (Iin): 1 • Turns: 60
- Frequency range: 10-50kHz
- Terminating resistance: 50Ω • Inductance: 5mH
- Size: 0.8"H x 0.7"W x 0.4"T

Part No.	Product No.	1	10	100
164718	MTC30101	$1.75	$1.49	$1.25

Same business day shipping until 6:00 p.m. EST



IsoSense Inc. Over Current Detectors, Evaluation Boards and Accessory BusBar

These isolated detectors provide ultra fast stand alone over current detection, ensuring fail safe operation for MOSFET, IGBT, and SCR based power circuits.

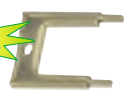

181622

Specs for Over-Current Detectors:
- Supply voltage: 3.8 to 24VDC
- Supply current: 10mA maximum
- Operating temp.: -40˚C to 125˚C
- Output trip time: 1uS


181649

181614: Trip current: 50A @ 25˚C
181622: Trip current: 125A @ 25˚C
181631: 50A evaluation board for easy in circuit evaluation
181649: 125A evaluation board for easy in circuit evaluation
181657: 75A accessory busbar

SALE


181657

Part No.	Iso Sense No.	Description	1	10	100
181614	9001-050	50A detector	$5.95	$5.35	$4.81
181622	9001-125	125A detector	6.95	6.25	5.63
181631	9001-050EVB	50A evaluation brd	16.95	15.25	13.73
181649	9001-125EVB	125A evaluation brd	17.95	16.16	14.54
181657	9002-001	75A busbar	.79	.69	.59

Jameco Offers 99.7% Availability

Optoelectronics

Optek Slotted Optical Switch

- Type N package
- Input diode: forward voltage (V_F) – 1.60V (I_F=10mA); reverse current (I_R) – 100µA (V_R = 3.0V)
- Output phototransistor: breakdown voltage ($V_{BR\ CEO}$) = 30V min.; collector-emitter dark current (I_{CEO}) – 100nA (V_{CE} = 5V)
- Coupled: saturation voltage (V_{SAT}) – 0.40V (I_F = 10mA; Ic=100µA) gap unblocked



Part No.	Product No.	1	10	50
189481	OPB660N	$1.95	$1.75	$1.49

Fiber Optic Cable Assemblies


Fig. 1 Fig. 2 Fig. 3

- Multimode • 62.5 / 125 micron fiber size
- Color: orange

SALE

Insertion Loss (dB) Table:

Part No.	A1	A2	B1	B2
175345	0.13	0.11	0.07	0.04
175353	0.21	0.10	0.23	0.07
175361	0.08	0.08	0.12	0.12
175370	0.15	0.04	0.11	0.02

Part No.	Desc.	Fig.	Length	1	10	100
175345	ST-ST	1	2M (6'6")	$22.95	$19.95	$17.95
175353	ST-SC	2	1M (3'3")	24.95	22.49	19.95
175361	ST-SC	2	2M (6'6")	32.95	29.95	26.95
175370	SC-SC	3	1M (3'3")	26.95	23.95	21.95

Fiber Optic Tool Kit



Kit contains fiber optic stripper, 25W hot knife professional fiber cutter, water dispenser, rubber pad, 600 grit and 3µm polishing film, replacement blades, ST-connector fiber polishing puck, rugged storage container and instruction booklet. • Weight: 2.5 lbs.

Part No.	Description	1	10
170034	Fiber Optic Tool Kit	$149.95	$134.95

Fiber Optic LED Emitters

Infrared and Visible Light


169957

- Mates with standard 1000µm core jacketed plastic fiber cable (recommend P/N 171272, right)
- Internal micro-lens for efficient coupling
- Connector-less fiber termination and connection
- Interference-free transmission from light-tight housing


169965 169949

SALE

• Excellent linearity
• Compatible with fiber optic photo detectors right

169957:
• Peak wavelength: 950nm, Vf=1.7mA max @ 50mA
169949 & 169965:
• Peak wavelength: 660nm, Vf=1.8mA max @ 50mA

Part No.	Description	Color Dot	1	10
169957	Fiber optic LED E91A	blue ...	$4.49	$4.04
169965	Fiber optic LED E96	pink	4.95	4.49
169949	Fiber optic LED E97	red	6.95	6.25

Fiber Optic NPN Phototransistor Detector

Infrared



- Mates with standard 1000µm core jacketed plastic fiber cable
- Simple PWB mounting • Excellent linearity
- Rugged screw attachment • Wavelength: 870nm
- Internal micro-lens for efficient coupling
- Inexpensive plastic connector housing
- Connector-less fiber termination and connection
- Interference-free transmission from light-tight housing • Compatible with LED emitters left
- V_{CEO}: 30V • I_C: 50mA • 100mW max.

Part No.	Description	Color Dot	1	10
169973	Phototransistor D92	white ...	$2.95	$2.65

Fiber Optic Infrared Detectors


169990 169981

- Mates with standard 1000µm core jacketed plastic fiber cable
- Internal micro-lens for efficient coupling
- Inexpensive plastic connector housing
- Connector-less fiber termination and connection
- Interference-free transmission from light-tight housing • Compatible with LED emitters left

169990: • TTL compatible output
• Peak wavelength sensitivity: 800nm
169981: • TTL open-collector output
• Peak wavelength sensitivity: 850nm

Part No.	Description	Color Dot	1	10
169990	Infrared detector D95T	yellow	$5.95	$5.35
169981	Infrared detector D96	white ..	6.95	6.25

10' Fiber Optic Cable

- 1000µm core jacketed plastic fiber optic cable (10')

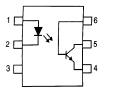
Part No.	Description	1	10
171272	10' fiber optic cable	$6.95	$6.25

For Fiber Optic Kits — see page 177

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

Photo Transistors *General Purpose (6-Pin DIP)*

Single & Dual Channel

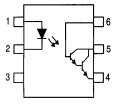
SALE

- Base lead connected
- NPN output transistor
- Iceo (dark) Vce = 10V: 50nA max.
- Isolation test voltage: 7.5k V-P; 5.3kV rms

* 2 independant isolators in one package, 8-pin DIP

Part Number	Product Number	Curr. Transfer Ratio (Min%)	Cont. Fwd. Curr. Max. (mA)	Vce (Sat) Max. (V)	Pricing 1	10	100	500
40985	4N25	20	50	0.5 (IF = 50mA)	**$.29**	**$.25**	**$.22**	**$.19**
41005	4N26	20			**.29**	**.25**	**.22**	**.19**
144240	4N27	10		(Ic = 2mA)	**.29**	**.25**	**.22**	**.19**
41013	4N28	10			**.25**	**.19**	**.15**	**.12**
41056	4N35	100	50	0.3 (IF = 10mA) (Ic = 5.0mA)	**.35**	**.29**	**.25**	**.19**
24900	MCT2	20	50	0.4 (IF = 16mA)	**.24**	**.22**	**.20**	**.15**
24918*	MCT6			(Ic = 0.2mA)	**.59**	**.55**	**.49**	**.45**
172187	H11AX	10	10	0.4 (IF = 10mA) (Ic = 0.5mA)	**.12**	**.11**	**.10**	**.09**

Photo Darlingtons *With Base Connection (6-Pin DIP)*

41021/41030:

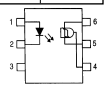
- Photo darlington transistor detector base lead connected
- BVCEO Ic =1mA: 30V min.
- Current transfer ratio IF=10mA VCE = 10V
- Isolation test voltage: 7.5k V-P; 5.3kV rms

184735: • BVCEO Ic =10mA: 25V

- Current transfer ratio: IF=1mA VCE = 5V

Part Number	Product Number	Curr. Transfer Ratio (Min%)	Cont. Fwd. Curr. Max. (mA)	Vce (Sat) Max. (V)	Pricing 1	10	100	500
41021	4N32	500	80	1.0 (IF = 8mA)	**$.35**	**$.29**	**$.25**	**$.19**
41030	4N33			(Ic = 2mA)	**.35**	**.29**	**.25**	**.19**
184735	H11B1	500	100	1.0 (IF = 1mA) (Ic = 1mA)	**.29**	**.25**	**.19**	**.17**

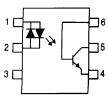
Schmitt Trigger *Single Channel (6-Pin DIP)*

- Microprocessor compatible
- Isolation test voltage: 7.5k V-P; 5.3kV rms

Part Number	Product Number	Threshold Current RL = 270Ω Vcc = 5V Turn-On (max)	Threshold Current RL = 270Ω Vcc = 5V Turn-Off (min)	Output Volt (low) RL=270Ω Vcc=5V Max. (V)	Pricing 1	10	100	500
113988	H11L1	1.6mA	0.3mA	0.4	**$.79**	**$.75**	**$.69**	**$.59**

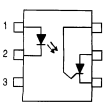
AC Input Isolator *Single Channel (6-Pin DIP)*

- Isolation test voltage: 7.5k V-P; 5.3kV rms
- VF (LED) IF =10mA: 1.5V max.
- BVceo Ic = 1mA: 30V min.

Part Number	Product Number	Curr. Transfer Ratio (Min%)	Cont.Fwd.Curr. Max. (mA)	Vce (Sat) IF=10mA Ic=0.5mA	Pricing 1	10	100	500
18825	H11AA1	20	100	0.4V (max)	**$.49**	**$.45**	**$.39**	**$.35**

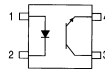
Photo SCR *Single Channel (6-Pin DIP)*

- Infrared LED emitter and light activated SCR
- Isolation test voltage: 7.5k V-P; 5.3kV rms
- Continuous forward current: 60mA max.

Part Number	Product Number	Input Trig.Curr.(max) VTM = 3V	Peak Off St.Rev.Curr.(max) VDRM=rated RGK=10kΩ	Pricing 1	10	100	500
18833	H11C3	14mA	200nA	**$.89**	**$.79**	**$.69**	**$.65**

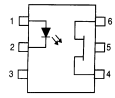
Transistor Slotted Interrupter *Single Channel (4-Pin DIP)*



- With mounting tabs
- VF = 1.7V max. @ 60mA

Part Number	Product Number	BVeco Ic = 1mA	BVeco IE = 100µA	ICEO (max) VCE = 25V Ih = 0	Pricing 1	10	100	500
114091	H21A1	30V min	6.0Vmin	100nA	**$.99**	**$.85**	**$.75**	**$.65**

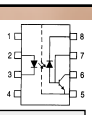
FET Coupler *Single Channel (6-Pin DIP)*



- Optically coupled pair with symmetrical bilateral silicon detector
- On state resistance IF = 16mA; I46 = 100µA: 200Ω max.
- Isolation test voltage: 7.5k V-P; 5.3kV rms

Part Number	Product Number	Output Brkdwn Volt. I46=10µA	Cont. Fwd. Curr. Max. (mA)	Off State Curr. I46 = 15V	Pricing 1	10	100	500
113996	H11F1	30V (min)	60	50nA (max)	**$2.75**	**$2.49**	**$2.25**	**$1.95**

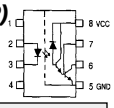
High Speed Transistor Coupler *Single Channel (8-Pin DIP)*



- Isolation voltage: 2.5kV rms min.
- Propagation delay time tPHL: Vcc=5V; IF=16mA: 0.8µs max. (RL=1.9kΩ)

Part Number	Product Number	Curr. Transfer Ratio (Min%)	Specified Input Current (mA)	Typical Data Rate (NRZ)	Pricing 1	10	100	500
42471	6N136	19	16	1Mbits/s	**$.95**	**$.85**	**$.75**	**$.65**

High Speed, High Gain Couplers *Single Channel (8-Pin DIP)*



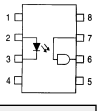
- Isolation voltage: 2.5kV rms min.

113929: Propagation delay time tPHL: 25 (IF=0.5mA) (RL=4.7kΩ)

42489: Propagation delay time tPHL: 10 (IF=1.6mA) (RL=2.2kΩ)

Part Number	Product Number	Curr. Transfer Ratio (Min%)	Specified Input Current (mA)	Typical Data Rate (NRZ)	Pricing 1	10	100	500
113929	6N139	400	0.5	300kbits/s	**$.99**	**$.89**	**$.79**	**$.69**
42489	6N138	300	1.6		**.99**	**.89**	**.79**	**.69**

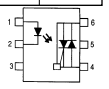
Very High Speed Logic Coupler *Single Channel (8-Pin DIP)*

- Isolation voltage: 2.5kV rms min.
- Propagation delay time RL = 350Ω; CL = 15pF; IF = 7.5mA: tPHL 75ns max. • LSTTL/TTL compatible

Part Number	Product Number	Curr. Transfer Ratio (Min%)	Specified Input Current (mA)	Typical Data Rate (NRZ)	Pricing 1	10	100	500
113911	6N137	700	5	10Mbits/s	**$1.09**	**$.95**	**$.85**	**$.79**

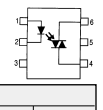
Zero Crossing Triac Couplers *Single Channel (6-Pin DIP)*



- Performs the function of a zero voltage crossing bilateral triac driver
- Isolation test voltage: 7.5k V-P; 5.3kV rms

Part Number	Product Number	Input Trig. Curr. VTM=3V (Max)	Cont. Fwd. Curr. Max (mA)	Peak Block Volt. Min (V)	Pricing 1	10	100	500
26294	MOC3031	15mA		250	**$1.09**	**$.99**	**$.89**	**$.79**
113953	MOC3032	10mA	50	250	**.95**	**.84**	**.76**	**.68**
113961	MOC3042	10mA		400	**1.15**	**1.05**	**.95**	**.85**
133874	MOC3063	5mA		600	**1.49**	**1.25**	**1.09**	**.99**

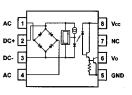
Triac Couplers *Single Channel (6-Pin DIP)*

- Infrared emitter and light activated silicon bilateral switch
- Isolation test voltage: 7.5k V-P; 5.3kV rms

Part Number	Product Number	Input Trig. Curr. VD=3V (Max)	Cont. Fwd. Curr. Max (mA)	Peak Block Volt. Min (V)	Pricing 1	10	100	500
26278	MOC3010	15mA		250	**$.49**	**$.45**	**$.39**	**$.35**
95020	MOC3011	10mA	60	250	**.55**	**.49**	**.45**	**.35**
95038	MOC3021	15mA		400	**.75**	**.69**	**.55**	**.45**

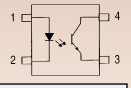
QT AC/DC Logic Interface Coupler *(8-Pin DIP)*

- Programmable sense voltage • Logic level compatibility
- Applications: low voltage detection, current sensing, relay contact monitor, industrial control
- Propagation delay time tPLH (RL = 4.7Ω; CL = 30pF): 40µs max.

Part Number	Product Number	Supply Voltage (Vcc)	Operating Frequency	Pricing 1	10	100	500
173534	HCPL-3700	18V max.	4kHz max.	**$5.19**	**$4.67**	**$4.20**	**$3.78**

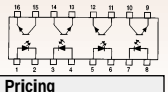
ISOCOM Photo Transistor *Low Input (4-Pin DIP)*

- Isolation test voltage: 7.5k V-P; 5.3kV rms

Part Number	Product Number	BVceo Ic = 1mA	Curr. Trans.Ratio Min (%) Vce=0.4V IF=0.5/1mA	VBR IR = 10µA	Pricing 1	10	100	500
138069	ISP817-3	70V	70/100	10V	**$.99**	**$.89**	**$.79**	**$.65**

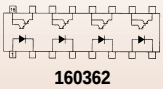
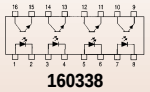
ISOCOM Transistor/Detector *Quad Channel (16-Pin DIP)*



- High Isolation voltage/CTR/sensitivity
- 4 independent isolators in one package
- Isolation test voltage: 7.5k V-P; 5.3kV rms

Part Number	Product Number	Curr. Trans. Ratio (Min%) IF = 10mA VCE = 10V	Cont. Fwd. Curr. Max. (mA)	Pricing 1	10	100	500
114083	ISQ203	225-450 / 50³	50	**$2.95**	**$2.49**	**$1.95**	**$1.75**
114075	ISQ204	200-400 / 100³		**2.25**	**2.02**	**1.82**	**1.63**

ISOCOM Photo Darlington & Transistor/Detector *(16-Pin DIP)*

- Isolation test voltage: 7.5k V-P; 5.3kV rms
- NPN transistor • 1.17VF @ 10mA (typical)
- Continuous forward current (max.): 50mA

160362: Photo darlington

160338: Photo transistor/detector

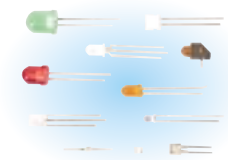
160362 160338

Part Number	Product Number	Curr. Transfer Ratio (Min%)	BVCEO (Ic = 1mA)	Vce (Sat) IF=10mA; Ic=2mA	Pricing 1	10	100	500
160362	PS2502-4	200	40V	1.0V max.	**$2.49**	**$2.25**	**$1.95**	**$1.75**
160338	PS2501-4	80-6000	80V	0.3V max.	**1.55**	**1.39**	**1.25**	**1.15**

Call for OEM PRICING – we carry major manufacturers.

- Typical DC forward current 20mA
1 Reverse polarity to change color
† Has internal current limiting resistor

✳ **Prepackaged: order in increments of 10, 100 or 1000**



See page 32 for LED Mounting Hardware

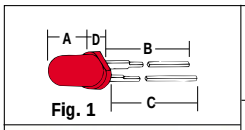
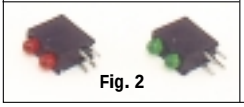


Fig. 1


Fig. 2

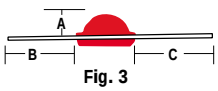


Fig. 3

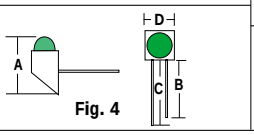


Fig. 4

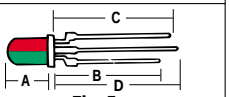


Fig. 5

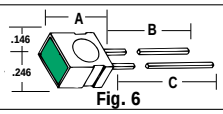


Fig. 6

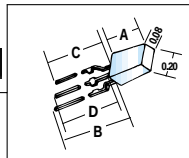


Fig. 7


Fig. 8

Part Number	Product Number	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions (Inches) A	B	C	D	Lead Spacing	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Pricing 1	10	100	1000
26745	MV50	3	Red	Water clear	T 3/4	.083/2.1	0.06	0.25	0.25	—	0.11	1.7 @ 20	1.4 @ 20	660	$.39	$.35	$.29	$.25
176532	MV50G	8	Green	Water clear	T 3/4	.069/1.7	0.06	0.40	0.40	0.05	0.08	2.1 @ 20	300 @ 20	568	.18	.17	.15	.13
175708	HMLP-6014	8	Orange Red	Red diffused	T 3/4	.080/1.66	0.58	0.40	0.40	0.55	0.09	1.7 @ 20	1.4 @ 20	660	✳	.16	.14	.13
134869	RRL5621	3	Orange Red	Red diffused (5V)†	T 3/4	.083/2.1	0.09	0.37	0.65	—	0.10	5.0 @ 8	1.2 @ 8	650	✳	.15	.12	.09
114673	LH2043	1	Red	Water clear (BR209)	T1	.119/3	0.14	0.98	1.05	0.03	0.07	2.8 @ 20	12.0 @ 10	697	✳	.12	.09	.05
114681	LVG2043	1	Green	Water clear (BG209)	T1	.119/3	0.14	0.98	1.05	0.03	0.07	2.8 @ 20	120.0 @ 20	563	✳	.15	.12	.09
142885	CLP1309-U	1	White	Water clear	T1	.119/3	0.22	0.84	0.90	0.04	0.08	3.6 @ 20	2300.0 @ 20	—	4.49	3.75	2.95	2.75
175679	LTL-232	1	Green	Green clear	T1	.119/3	0.17	0.69	0.76	0.03	0.08	2.1 @ 20	120.0 @ 20	563	✳	.12	.10	.07
136493	LT0333-41	1	Yellow	Yellow clear (BY209)	T1	.119/3	0.20	0.95	1.00	0.04	0.10	2.1 @ 20	19.0 @ 20	585	✳	.15	.10	.07
137411	LVB2040	1	Blue	Blue diffused	T1	.119/3	0.21	0.98	1.03	0.04	0.10	5.5 @ 20	7.0 @ 20	430	2.75	2.49	2.25	1.75
34606	LSG2040	1	Green	Green diffused (XC209G)	T1	.119/3	0.13	1.05	1.10	0.03	0.08	2.8 @ 20	15 @ 10	560	✳	.15	.10	.06
34657	LY2040	1	Yellow	Yellow diffused (XC209Y)	T1	.119/3	0.16	0.68	0.76	0.04	0.08	2.8 @ 20	6.5 @ 10	585	✳	.15	.10	.06
34622	LR2040	1	Orange Red	Red diffused (XC209R)	T1	.119/3	0.14	1.09	1.14	0.04	0.09	2.0 @ 20	1.5 @ 10	655	✳	.15	.10	.06
94529	LH2040	1	Red	Red diffused (XC209RB)	T1	.119/3	0.18	1.04	1.13	0.03	0.07	2.0 @ 20	2.7 @ 20	700	✳	.19	.12	.09
123941	521-9478	1	Green/Yellow	White diff. bi-color/bi-state1	T1	.119/3	0.18	0.86	0.93	0.03	0.08	2.6 @ 10	2.0 @ 10	565/585	✳	.19	.12	.09
94553	LHG2062	1	Red/Green	White diff. bi-color/bi-state1	T1	.119/3	0.18	1.06	1.12	0.03	0.08	2.8 @ 20	3.0 & 15 @ 10	697/565	✳	.19	.15	.12
136282	LXH240LIID	2	Orange Red	Red diffused dual	T1	.119/3	0.36	0.13	0.13	—	0.10	1.8 @ 5	1.0 @ 2	635	✳	.10	.08	.07
136274	LA44B/2G	2	Green	Green diffused dual	T1	.119/3	0.36	0.13	0.13	—	0.10	2.1 @ 25	15.0 @ 20	565	✳	.29	.25	.19
104248	LA93B/H-1	4	Red	Red diffused (XC410R)	T1 3/4	.197/5	0.35	0.89	0.95	0.23	0.08	2.8 @ 20	6.5 @ 10	697	✳	.19	.15	.12
104264	LA93B/Y-1	4	Yellow	Yellow diffused (XC410Y)	T1 3/4	.197/5	0.35	0.89	0.95	0.23	0.08	2.8 @ 20	2.5 @ 10	585	.29	.25	.19	.15
104256	LA93B/G-1	4	Green	Green diffused (XC410G)	T1 3/4	.197/5	0.35	0.89	0.95	0.23	0.08	2.2 @ 20	6.0 @ 10	570	.29	.25	.19	.12
183231	T18W133196	1	White	Water clear	T1 3/4	.197/5	0.30	1.06	1.12	0.04	0.08	3.6 @ 20	3000.0 @ 20	—	3.25	2.95	2.59	2.25
142893	CLP1509	1	White	Water clear	T1 3/4	.197/5	0.34	0.79	0.88	0.04	0.08	3.6 @ 20	3700.0 @ 20	—	4.49	3.95	3.49	2.95
34745	LH3333	1	Red	Water clear (XC554R)	T1 3/4	.197/5	0.30	1.00	1.12	0.04	0.08	2.8 @ 20	7.5 @ 10	697	✳	.15	.10	.08
11797	HPQLMPD141	1	Red Sup. Bright	Water clear (BR5704)	T1 3/4	.197/5	0.29	1.05	1.11	0.03	0.07	2.0 @ 20	80.0 @ 20	660	✳	.17	.10	.07
175695	LTL-425B	1	Yellow	Water clear	T1 3/4	.197/5	0.30	1.07	1.15	0.03	0.08	2.1 @ 20	220.0 @ 20	595	✳	.22	.16	.12
153138	LT2KJ3-UR-S14	1	Orange	Water clear	T1 3/4	.197/5	0.36	0.90	0.95	—	0.10	2.4 @ 20	2500.0 @ 20	621	.49	.45	.39	.29
131895	TLSH180P	1	Org. Ult. Bright	Water clear	T1 3/4	.197/5	0.39	0.80	0.86	0.06	0.10	2.1 @ 20	7000.0 @ 20	623	2.49	2.25	1.75	1.49
137613	LSB3333	1	Blue Sup. Bright	Water clear	T1 3/4	.197/5	0.34	0.98	1.03	0.04	0.08	5.5 @ 20	190.0 @ 20	430	2.75	2.49	2.25	1.95
134332	LT18B3-81UR	1	Blue Sup. Bright	Water clear	T1 3/4	.197/5	0.30	0.93	1.00	0.04	0.10	5.0 @ 20	630.0 @ 20	428	2.95	2.75	2.25	1.95
11359	LG3333	1	Grn. Sup. Bright	Water clear (BG5704)	T1 3/4	.197/5	0.30	1.04	1.12	0.04	0.07	2.1 @ 20	40.0 @ 20	555	✳	.19	.12	.08
153154	LVG3333	1	Green	Water clear	T1 3/4	.197/5	0.36	0.90	0.95	—	0.10	2.2 @ 20	300.0 @ 20	568	.29	.25	.19	.15
183222	MCDL513SBC4	1	Blue	Water clear	T1 3/4	.197/5	0.29	1.02	1.13	0.04	0.08	5.0 @ 20	3000.0 @ 20	470	3.25	2.95	2.59	2.25
183214	MCDPG503PCI	1	Green	Water clear	T1 3/4	.197/5	0.30	1.04	1.09	0.04	0.08	3.5 @ 20	2200.0 @ 20	515	3.25	2.95	2.59	2.25
153146	LT2K33-URP-8	1	Yellow	Water clear	T1 3/4	.197/5	0.36	0.90	0.95	—	0.10	2.4 @ 20	9300.0 @ 20	595	.59	.55	.49	.45
175687	LTL-10234	1	Green	Green clear	T1 3/4	.197/5	0.24	1.07	1.14	0.05	0.07	2.0 @ 20	40 @ 20	555	✳	.07	.06	.05
138691	LVB3330	1	Blue	Blue diffused	T1 3/4	.197/5	0.34	0.98	1.03	0.06	0.08	5.5 @ 20	10.0 @ 20	430	2.75	2.49	1.95	1.75
34761	LG3330	1	Green	Green diffused (XC556G)	T1 3/4	.197/5	0.31	0.79	0.88	0.04	0.09	2.8 @ 20	12.0 @ 10	565	✳	.12	.09	.05
107393	LE3330	1	Orange Red	Orange diffused (XC556A)	T1 3/4	.197/5	0.30	1.02	1.08	0.04	0.08	2.8 @ 20	12.0 @ 20	635	✳	.15	.10	.06
34825	LY3330	1	Yellow	Yellow diffused (XC556Y)	T1 3/4	.197/5	0.30	0.82	0.84	0.03	0.07	2.8 @ 20	0.5 @ 10	585	✳	.15	.10	.06
94511	LH3330	1	Red	Red diffused (XC556RB)	T1 3/4	.197/5	0.31	0.81	0.86	0.04	0.08	2.8 @ 10	4.0 @ 10	697	✳	.15	.10	.06
34796	LR3330	1	Orange Red	Red diffused (XC556R)	T1 3/4	.197/5	0.30	0.62	0.68	0.04	0.08	2.0 @ 20	1.5 @ 10	655	✳	.15	.10	.06
135597	LTL307E	1	Orange Red	Red diffused	T1 3/4	.197/5	0.34	1.00	1.05	0.03	0.07	2.8 @ 20	19.0 @ 10	635	✳	.19	.12	.09
94561	LFG3360	1	Green	Green diff./flashing (XC5408)	T1 3/4	.197/5	0.30	1.05	1.11	0.04	0.08	1.2 @ 20	17.0 @ 20	565	.55	.49	.45	.35
34690	LFH3360	1	Red	Red diff./flashing (XC5410)	T1 3/4	.197/5	0.30	0.94	0.98	0.04	0.07	1.2 @ 20	2.8 @ 20	697	.49	.45	.39	.29
138860	LFH3363	1	Red	Water clear/flashing†	T1 3/4	.197/5	0.35	1.06	1.15	0.04	0.10	3-15 @ 20	7.5 @ 20	697	.39	.35	.32	.29
34673	LHG3392	5	Red/Green	White diff. bi-color/tri-state1	T1 3/4	.197/5	0.30	1.02	1.05	1.12	0.03	2.8 @ 20	3.0 & 12 @ 10	697/565	.29	.25	.19	.12
34711	LEG3362	1	Red/Green	White diff. bi-color/bi-state1	T1 3/4	.197/5	0.30	1.01	1.06	0.04	0.09	2.8 @ 20	4.5 @ 20	695/565	.29	.25	.19	.12
119634	LHR3930	1	Red Sup. Bright	Red diffused Jumbo	T2 1/2	.315/8	0.44	0.84	1.00	—	0.07	2.4 @ 20	100.0 @ 20	660	.29	.25	.19	.12
137621	LVG3930	1	Green	Green diffused Jumbo	T2 1/2	.315/8	0.43	1.04	1.09	0.07	0.07	1.7 @ 20	40.0 @ 20	565	✳	.10	.09	.08
98984	LVG3630	1	Green	Green diff. XJumbo (XC10G)	T3 1/4	.394/10	0.40	1.07	1.17	0.12	0.08	2.8 @ 20	40.0 @ 20	565	✳	.21	.19	.17
138683	LHR3630	1	Red	Red diff. XJumbo (XC10RB)	T3 1/4	.394/10	0.40	1.04	1.08	0.07	0.10	1.5 @ 20	200.0 @ 20	660	.29	.25	.19	.15
98992	LY3630	1	Yellow	Yellow diff. XJumbo	T3 1/4	.394/10	0.54	1.04	1.11	0.08	0.08	2.1 @ 20	8.0 @ 20	585	.29	.25	.19	.15
104889	LEG5292	7	Red/Green	White diff. bi-color rect.	2 x 5	—	0.27	1.02	1.05	1.13	0.08	2.2 @ 20	3.5/6 @ 10	695/570	✳	.11	.10	.09
94545	LG25030	6	Green	Green diff. rect. (XC57124G)	3.5 x 6	—	0.26	1.06	1.11	—	0.08	2.2 @ 20	5.0 @ 20	565	.35	.29	.25	.19
34850	LT7341R-81	6	Orange Red	Red diffused rectangular	3.5 x 6	—	0.27	0.85	0.93	—	0.07	2.0 @ 20	10.1 @ 20	635	.39	.35	.29	.25

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

- Typical DC forward current 20mA

✳ **Prepackaged: please order in increments of 10, 100 or 1000**

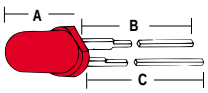


Fig. 1

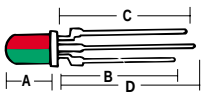


Fig. 2


152864

151415



Ledtech is a QS9000 and ISO-9000 Certified Company

Part Number	Product Number	Fig.	Emitting Color	Lens/Feature Description	LED Size	Dia. (inch/mm)	Dimensions (Inches) A	B	C	D	Lead Spacing	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Pricing 1	10	100	1000
156929	LT0321-41-HE	1	Green	Green diffused	T1	.118/3	0.16	0.88	0.94	—	0.10	2.1 @ 20	13.3 @ 20	567	✳	**$.15**	**$.12**	**$.09**
156937	LT0331-41	1	Yellow	Yellow diffused	T1	.118/3	0.16	0.88	0.94	—	0.10	2.1 @ 20	11 @ 20	585	✳	**.15**	**.12**	**.09**
156945	LT0362-25-D61	2	Red/Green	White diff. bi-color tri-state	T1	.119/3	0.16	0.87	0.94	1.0	0.08	2.1 @ 20	14/3 @ 20	700/567	**.29**	**.25**	**.19**	**.15**
156953	LT0373-41	1	Red Super Brt.	Water clear	T1	.119/3	0.21	1.07	1.14	—	0.08	1.7 @ 20	600 @ 20	660	✳	**.15**	**.12**	**.09**
152768	LT0324-41	1	Green	Green clear	T1	.119/3	0.20	0.89	0.95	—	0.10	2.1 @ 20	20 @ 20	567	✳	**.12**	**.09**	**.07**
152750	LT0344R-41	1	Orange Red	Red clear	T1	.119/3	0.20	0.89	0.95	—	0.10	2.1 @ 20	23.5 @ 10	635	✳	**.12**	**.09**	**.07**
152784	LT0341R-41	1	Orange Red	Red diffused	T1	.119/3	0.20	0.89	0.95	—	0.10	2.1 @ 20	6.9 @ 10	635	✳	**.12**	**.09**	**.07**
152792	LT1833-81M1	1	Yellow Super Brt.	Water clear	T1 ¾	.197/5	0.34	0.89	0.95	—	0.10	2.1 @ 20	420 @ 20	595	**.35**	**.29**	**.25**	**.19**
152821	LT1821-81-HE	1	Green	Green diffused	T1 ¾	.197/5	0.34	0.89	0.95	—	0.10	2.2 @ 20	100 @ 20	567	✳	**.15**	**.12**	**.09**
156961	LT1823-81-HE	1	Green	Water clear	T1 ¾	.197/5	0.34	0.87	0.97	—	0.10	2.2 @ 20	500 @ 20	567	✳	**.15**	**.12**	**.09**
152830	LT1831-81UR	1	Yellow Ultra Brt.	Yellow diffused	T1 ¾	.197/5	0.34	0.89	0.95	—	0.10	2.1 @ 20	400 @ 20	595	**.49**	**.45**	**.39**	**.29**
152856	LT1841R-81	1	Orange Red	Red diffused	T1 ¾	.197/5	0.34	0.89	0.95	—	0.10	2.1 @ 20	10.3 @ 10	635	✳	**.12**	**.09**	**.06**
152864	LT1873-81	1	Red Super Brt.	Water clear	T1 ¾	.197/5	0.34	0.89	0.95	—	0.10	1.7 @ 20	1000 @ 20	660	✳	**.15**	**.12**	**.09**
152805	LT1873-81-UR	1	Red Ultra Brt.	Water clear	T1 ¾	.197/5	0.34	0.89	0.95	—	0.10	1.9 @ 20	2000 @ 20	660	**.35**	**.29**	**.25**	**.19**
156970	LT1873-UR-C07	1	Red Ultra Brt.	Water clear (wide angle)	T1 ¾	.197/5	0.34	0.89	0.95	—	0.10	1.9 @ 20	2112 @ 20	660	**.35**	**.29**	**.25**	**.19**
White Diffused Backlight																		
151415	LTIF24-A2-S1	–	Green	Backlight, white diffused	2.05"L x 0.78"H x 0.09"T						8-pin	6.0 @ 20	6.0 @ 20	567	**2.95**	**2.49**	**1.95**	**1.49**

LED Accessories

LED Mounting Hardware

† **95521:** for use with P/N 104889, 94545 and 34850, pg 31

✳ **Prepackaged: please order in increments of 10, 100 or 1000**


95513


23077


95521

Part No.	Product No.	Description	Color	Mounting Hole Dia.	Panel Thickness	Pricing 1	10	100	1000
95513	LMH100	T1 snap-in	black	.185"	up to .070"	✳	**$.11**	**$.08**	**$.06**
23077	LMH200	T1¾ ring & clip	black	.257"	up to .125"	✳	**.12**	**.10**	**.08**
95521†	LMH250	Rect. snap-in	black	.306" x .202"	up to .092"	✳	**.09**	**.07**	**.05**

T1 & T1$^3/_4$ Cliplite® LED Mounting Hardware

- Material: lens – polycarbonate; spacer – nylon
- Increases brightness up to 125% and viewing angle with either diffused or nondiffused LEDs
- Helps guard components from electrostatic discharge up to 16kV while affording the LED physical protection
- .375" centers spacing


29612

Figure 1 (5mm)

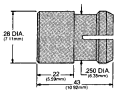
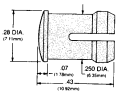


Figure 2 (5mm)

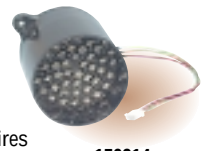


✳ **Prepackaged: please order in increments of 10, 100 or 1000**

Part No.	Product No.	Description	Color	Figure	Mounting Hole Dia.	Panel Thickness	Pricing 1	10	100	1000
124919	SML190RTP	T1	Red	1	.25"	.063" –.125"	✳	**$.10**	**$.08**	**$.06**
14277	CTP280	T1¾	Clear	1	.25"	.063" –.125"	**.25**	**.22**	**.19**	**.15**
29612	RTP280	T1¾	Red	1	.25"	.063" –.125"	**.25**	**.22**	**.19**	**.15**
124927	CLB300CTP	T1¾	Clear	2	.25"	.031" – .25"	**.25**	**.22**	**.19**	**.15**
124951	CLB300RTP	T1¾	Red	1	.25"	.031" – .25"	**.12**	**.11**	**.10**	**.09**

Cluster-Type T1$^3/_4$ LED Lamps

- Cluster-type red/green T1¾ LEDs
- Lens: water clear
- 660nm for red/570nm for green
- Mounting screws
- Common anode • 3 lead wires


150914

150922:
- Vf @ If: 10V @ 20mA
- 1950 mcd @ 20mA
- Size: 1.02"Dia. x 1.51"L
- 8 green/6 red
- 7" lead wire

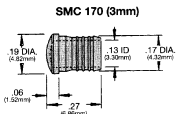
150914: • Vf @ If: 20.5V @ 40mA
- 30 green/20 red
- 16" lead wire
- 12,000 mcd @ 40mA
- Size: 2.07"Dia. x 1.98"L

Part No.	Product No.	Mounting Hole	1	10	100
150922	LCR2614B-79	M3	**$3.95**	**$3.49**	**$2.95**
150914	LCR5250A-79	M4	**19.95**	**17.95**	**15.95**

T1 Cliplite® Lens

- Use with P/N 143087 LED T1 cable assembly (right)

✳ **Prepackaged: please order in increments of 10, 100 or 1000**

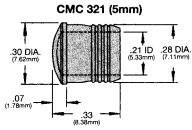


Part No.	Product No.	Color	10	100	1000
143183	SMC170CTP	Clear ..... ✳	**$.22**	**$.19**	**$.17**

T1$^3/_4$ Cliplite® Lens

- Use with P/N 143036 and 143052 LED T1¾ cable assemblies (right)

✳ **Prepackaged: please order in increments of 10, 100 or 1000**



Part No.	Product No.	Color	10	100	1000
143132	CMC321CTP	Clear ..... ✳	**$.22**	**$.19**	**$.17**

Design Engineer's 139 Piece LED Hardware Assortment Kit

Allows you to mount LEDs for different applications and designs. Eliminates soldering, shrink tubing and terminal crimping.

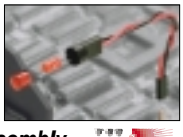


- 139 piece hardware kit for T1 and T1$^3/_4$ LEDs
- Clear plastic case w/ dividers
- Size: 8.5"L x 4.5"W x 1.5"H
- Weight: 0.4 lbs.

Includes: LED panel lenses and mounts	• Colors: clear, red, yellow, green and blue • Shapes: round, square • Retainers
Pre-wired solderless LED interconnection	• Varied lengths • Standard header pin connector termination • Crimp-type removable connector pins
LED PCB mounts, sockets and standoffs	• Vertical and horizontal mount • Various height LED standoffs • SMT-type connectors • Through-hole type connetors • Resistor-type connectors

Part No.	Description	1	10
140759	LED hardware kit	**$24.95**	**$22.49**

Conxrite® Cable Assemblies for T1 and T1$^3/_4$ LEDs



T1 LED Cable Assembly

- Use with lens P/N 143183 (left)

Part No.	Prod. No.	Cable Lgth.	1	10	100	1000
143087	BE2108	8.5" ..	**$1.49**	**$1.25**	**$1.09**	**$.99**

T1$^3/_4$ LED Cable Assemblies

- Use with lens P/N 143132 (left)

Part No.	Prod. No.	Cable Lgth.	1	10	100	1000
143036	CE2108	8.5" ..	**$1.49**	**$1.25**	**$1.09**	**$.99**
143052	CE2118	18"	**1.75**	**1.49**	**1.25**	**1.09**

Call for large OEM pricing – we carry major manufacturers.

LED Displays

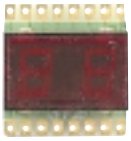
The general advantages of LED displays compared to incandescent types are:

• Lower power consumption • Longer lifetime (averaged more than 300,000 hours) • Compact size suitable for instrumentation and graphic representations

Soldering: • Soldering bath: not more than 5 seconds @ 260°C • Soldering iron: not more than 3 seconds @ 300°C under 30W


24740 & 24782


18753


27545

SALE


161509


17187


24723

SALE


161496


18737


32951


118906

† PC board mounted

7-Segment Displays

Part Number	Mfrs. New Product Number	Jameco's Old Product Number	Character Height	Illuminated Color	Buss Polarity*	Pins/ Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing 1	10	100	1000
24731	LSD3021-11	MAN71	.300"	Red	CA	11	1.9 @ 20	0.3 @ 20	697	RHDP	**$.99**	**$.85**	**$.69**	**$.55**
24740	LSD3221-11	MAN72	.300"	Red	CA	11	2.1 @ 20	2.5 @ 20	697	LHDP	**.89**	**.75**	**.65**	**.49**
151976	LTS312AY	3005-03	.300"	Yellow	CA	11	2.8 @ 20	2.0 @ 10	585	LHDP	**.89**	**.75**	**.65**	**.49**
24782	LSD3211-11	MAN74	.300"	Red	CC	10	2.1 @ 20	2.5 @ 20	697	RHDP	**.89**	**.75**	**.65**	**.49**
27545	NSN373	NSN373 †	.300"	Red	2-digit CC	16	1.7 @ 10	1.6 @ 20	660	—	**.10**	**.09**	**.08**	**.07**
152944	LA3051-16	—	.300"	Red	CA	11	2.1 @ 20	0.8 @ 10	700	L/RHDP	**.65**	**.57**	**.51**	—
161509	LN524YA	—	.430"	Yellow	2-digit CA	10	2.2 @ 20	0.6 @ 5	700	RHDP	**.35**	**.32**	**.29**	**.26**
17187	LSD5051-11	CSS5103H1-21	.500"	Red	CC	10	2.1 @ 20	0.9 @ 20	697	RHDP	**.89**	**.75**	**.65**	**.49**
17208	LSD5061-11	FND507	.500"	Red	CA	10	2.1 @ 20	0.9 @ 20	697	RHDP	**.89**	**.75**	**.65**	**.49**
104213	LSD5124-10	LTS5301R	.560"	Orange Red	CA	10	2.0 @ 20	2.4 @ 20	635	RHDP	**.65**	**.55**	**.49**	**.45**
24715	LDD5121-20	CSD524H-22	.560"	Red	2-digit CA	18	2.1 @ 20	0.8 @ 20	697	RHDP	**1.25**	**1.05**	**.89**	**.75**
24723	LDD5111-11	MAN6740	.560"	Red	2-digit CC	18	2.1 @ 20	0.8 @ 20	697	RHDP	**1.25**	**1.05**	**.89**	**.75**
24694	LDD5124	CSD524E-33	.560"	Orange Red	2-digit CA	18	2.0 @ 20	2.4 @ 20	635	RHDP	**1.59**	**1.49**	**1.35**	**1.19**
24707	LDD5114-20	CSD525E-63	.560"	Orange Red	2-digit CC	18	2.0 @ 20	2.4 @ 20	635	RHDP	**1.35**	**1.15**	**.85**	**.75**
161488	LN516YK	—	.560"	Yellow	CC	10	2.2 @ 20	0.8 @ 10	590	RHDP	**.36**	**.32**	**.29**	**.26**
18737	LSD816-11	LTS3401LE	.800"	Orange Red	CA	13	1.6 @ 20	0.9 @ 20	655	RHDP	**1.25**	**1.05**	**.79**	**.59**
18753	LSD8151-10	LTS3405	.800"	Red	CC	13	2.1 @ 20	1.0 @ 20	697	LHDP	**1.39**	**1.19**	**.99**	**.79**
176559	C8021-1	—	.800"	Green	CC	13	2.0 @ 20	0.9 @ 20	568	RHDP	**.89**	**.75**	**.59**	**.45**
97172	LSD10061-10	CSS1014H	1.0"	Red	CA	10	2.1 @ 20	2.0 @ 20	697	RHDP	**1.39**	**1.19**	**.89**	**.79**
97199	LSD23265-10	CSS2314D	2.24"	Red	CA	10	1.7 @ 20	21 @ 20	660	RHDP	**4.75**	**4.25**	**3.75**	**3.49**
97201	LSD23255-10	CSS2315D	2.24"	Red	CC	10	1.7 @ 20	21 @ 20	660	RHDP	**4.49**	**3.95**	**3.25**	**2.95**
105591	LSD40054-20	CSS4013E	4.0"	Orange Red	CC	10	2.0 @ 20	1.8 @ 20	635	RHDP	**9.49**	**8.29**	**7.49**	**6.49**

Dot Matrix Displays

Part Number	Mfrs. New Product Number	Jameco Sockets	Character Height	Illuminated Color	Buss Polarity*	Pins/ Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing 1	10	100	1000
173833	HP5082-7300	—	.290"	Red	4x7 Numeric	8	5.0 @ 170	.03 @ 20	640	RHDP	**$4.95**	**$4.49**	**$3.95**	**$3.25**
32951	TIL311	37161	.300"	Red	4x7 Hex character	11	5.0 @ 5	0.1 @ 5	660	—	**16.95**	**15.95**	**14.95**	**13.95**
118906	LTP747R	37161	.680"	Orange Red	5 x 7 AC/CR	12	1.7 @ 20	0.2 @ 20	655	—	**1.95**	**1.75**	**1.49**	**1.25**
183265	LMD5821ASR-20	101282	2.3"	Red	5 x 8 CC/AR	14	1.7 @ 20	12 @ 20	660	—	**4.95**	**4.49**	**3.95**	**3.49**

*CA-Common Anode / CC-Common Cathode / AC-Anode Column / CR-Cathode Row / AR-Anode Row # LHDP-Left Hand Decimal Point / RHDP-Right Hand Decimal Point

Incandescent Lamps

Incandescent Lamps

• Average life hours 10,000-50,000 hours

* P/N 141006/141073/141065: C2R filament type


141006


141065

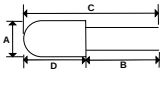


Fig. 1

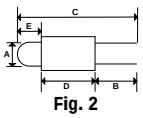


Fig. 2

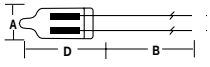


Fig. 3

Part No.	Product No.	Fig.	Size	Description	Dia.(mm) A	Dimensions (in.) B	C	D	E	Vf @ If	Pricing 1	10	100	1000
141057	6833	1	T ¾	Incandescent lamp (1" lead wire)	.08/2.2	1	1.2	0.2	—	5V @ 60mA	**$.59**	**$.45**	**$.29**	**$.24**
141065*	2200	1	T1 ¾	Incandescent lamp (1" lead wire)	.19/4.9	1	1.5	0.5	—	5V @ 60mA	**.49**	**.35**	**.25**	**.19**
141073*	2182	1	T1 ¾	Incandescent lamp (1" lead wire)	.19/4.8	1	1.5	0.5	—	14V @ 80mA	**.49**	**.35**	**.25**	**.19**
141006*	7361	2	T1 ¾	Incandescent lamp bi-pin base	.18/4.7	0.3	0.8	0.3	0.3	5V @ 60mA	**.59**	**.49**	**.35**	**.29**
27351	NE2	3	—	Neon lamp (req. 150kΩ res. in series)	.197/5	1.2	—	0.38	—	65-120VDC @ 130-470mA/ 65-120VAC @ 150-500mA	**.49**	**.39**	**.29**	**.25**

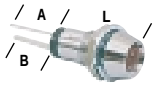
Panel Mount LED Indicators

• Easy panel installation • Panel/status/instrument indicators

• Vf @ If: 2V @ 20mA • Color: red • Chrome housing

Part Number	Product Number	LED Size	Dimensions (in.) L	A	B	Mounting Hole	Pricing 1	10	100	1000
141111	L922SRD	T1	.56	.34	.25	.23"	**$.79**	**$.65**	**$.49**	**$.39**
141129	L913RD	T1	.56	.39	.32	.24"	**.89**	**.79**	**.65**	**.45**
141137	L917RD	T1 ¾	.70	.55	.47	.31"	**.89**	**.79**	**.65**	**.45**


141111



141129/141137

JAMECO ELECTRONICS
Over 6000 Quality Products!

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

Scott Edwards Electronics, Inc.

Serial LCD Modules

- Includes instruction codes for character generation, cursor control, printing, etc. (examples for Stamps in PBASIC included)
- One-year warranty

Ideal for use w/ BASIC Stamps (pg 168), 80C52-BASIC controllers and PCs!

16 characters x 2 lines Integrated Display



- Terminal style 1200–9600 bps serial input with 16-byte input buffer
- Four inputs for switches/buttons that can be read via the serial connection
- EEPROM storage of settings, six custom characters, and a text screen that can be automatically displayed at startup (splash screen)
- Serial control of the standard LED backlight
- Low current draw; 5mA (backlight off) to 40mA (backlight on and bright)
- Power requirement: 4.8 – 5.5VDC @ 5mA (recommend P/N 164101, pg 67)
- Module size: 3.2"L x 2.0"W x 0.5"T

Part No.	Description	1	10	25
150990	LCD module	$59.95	$53.95	$47.95

16 characters x 2 lines LCD Serial Backpack®



- High-contrast supertwist display
- Serial "backpack" accepts RS232, or inverted CMOS, TTL at 2400 or 9600 bps
- Power requirement: 4.8 – 5.5VDC @ 3mA (recommend P/N 164101, pg 67)
- Module size: 3.1"L x 1.4"W x 0.7"T

Part No.	Description	1	10	25
133129	LCD module	$54.95	$49.95	$44.95

20 Characters x 4 Lines Graphics LCD



- 120 x 32 pixel graphics screen
- Terminal style 2400 or 9600 bps serial input
- EEPROM stores text font and 6 full-screen images
- Supports multiple fonts and font sizes
- Included utility program lets you create and download pictures and fonts
- Power requirement: 9V battery or 5V power supply (recommend P/N 164101, pg 67)
- Module size: 3.1"L x 1.9"W x 0.8"T

Includes: Battery snap connectors, sample programs and manual on disk

Part No.	Description	1	10
158166	20 x 4 serial LCD display ..	$129.95	$116.95

40 characters x 4 lines LCD Serial Backpack®



- High-contrast supertwist display with unique "big character" mode – prints 1" numbers and letters automatically
- Serial input at 1200, 2400, 4800 or 9600 bps
- Power requirement: 5VDC @ <10mA (recommend P/N 164101, pg 67)
- Module size: 7.5"L x 2.2"W x 0.9"T

Part No.	Description	1	10
136485	40 x 4 serial LCD display ..	$169.95	$152.95

Same business day shipping until 6:00 p.m. EST.
See page 182 for Zone Chart



16 Characters x 2 Lines Serial LCD Module



- Backlight control, bar graphs, large digits, multiple displays, software contrast control, auto line wrapping, and auto scroll feature
- Serial input at 1200–19,200bps (jumper selectable)
- Connect 16 modules using the same 2 wire interface
- Backlight supply current: 40mA typical
- Power requirement: 5VDC @ 9mA (recommend P/N 164101, pg 67)
- Display size: 2.5"L x 0.7"W
- Module size: 3.2"L x 1.5"W x 0.8"T
- Weight: 0.6 lbs.

Includes: Manual and software

Part No.	Description	1	10	25
174166	16 x 2 w/ interface	$59.95	$54.95	$49.95

20 Characters x 4 Lines Serial VFD Display



- 20 characters x 4 lines with large digits and bar graph mode
- Bar graphs, large digits multiple displays, software contrast control, auto line wrapping and scroll feature
- Serial input of 1200–19,200bps (jumper selectable)
- Power off supply current: 9mA
- Power requirement: 5VDC @ 275mA typical (recommend P/N 164101, pg 67)
- Display size: 2.8"L x .82"W
- Module size: 3.9"L x 2.4"W x 1.0"T

Includes: Manual and software

Part No.	Product No.	1	10	25
174158	VFD2041	$159.95	$143.95	$129.95

20 x 4 Serial LCD Modules



150957



157323

- 20 characters x 4 line display with large digit mode
- Backlight control, bar graphs, large digits, multiple displays, software contrast control, auto line wrapping and auto scroll feature
- Backlight supply current: 90mA typical
- Serial input at 1200–19,200bps (jumper selectable)
- Connect 16 modules using the same 2 wire interface
- Display size: 3.0"L x 1.0"W
- One-year warranty

Includes: Manual and software

150957: 20 x 4 Serial LCD Module
- Power requirement: 5VDC @ 10mA typical (recommend P/N 164101, pg 67)
- Module size: 3.9"L x 2.4"W x 0.7"T
- Weight: 0.9 lbs.

157323: 20x4 Serial LCD Module with keypad Interface
- Power requirements: 5VDC @ 16mA typical (recommend P/N 164101, pg 67)
- Module size: 3.7"L x 2.4"W x 1.1"T
- Wteight: 0.6 lbs.

Part No.	Description	1	10	25
150957	LCD module	$89.95	$80.95	$72.95
157323	Module w/ interface	109.95	99.95	89.95

DATA IMAGE Parallel LCD Displays

SALE

20 Characters x 2 Lines



185172



185181

- LCD type: STN gray, reflective
- Character font: 5 x 8 dots
- Logic supply voltage: 7V maximum (recommend P/N 164101, pg 67)
- LCD driver supply voltage: 13.5V maximum
- Viewing angle: 70–90˚
- Input data: 8-bit

185172: Module size: 3.5"L x 1.4"W x 0.25"T
185181: Module size: 7.1"L x 1.6"W x 0.25"T

Part No.	Product No.	1	10	25
185172	CXM20211SR	$12.95	$11.49	$9.95
185181	CM2021	17.95	13.55	11.15

Graphics LCD

40 characters x 8 lines Maximum



- 40 characters x 8 lines max. display with 5 x 7 font
- Backlight control, bar graphs, large digits, multiple displays, software contrast control, auto line wrapping, and auto scroll feature
- Pixel layout: 240 x 64 pixels
- Serial input: 1200–19,200bps (jumper configurable)
- Backlight supply current: 160mA typical
- Power requirement: 5VDC @ 31mA typical (recommend P/N 164101, pg 67)
- Display size: 5.2"L x 1.5"W • Weight: 0.9 lbs.
- Module size: 7.1"L x 2.6"W x 0.7"T

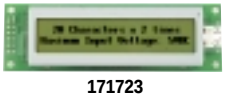
Includes: Manual and software

Part No.	Description	1	10	25
174182	Graphics display	$199.95	$179.95	$162.95

LCD Parallel Displays



171715



171723

- 8-bit interface data bus
- Controller: KS0066U or equivalent
- Character font size: 0.125"W x 0.200"H
- Maximum input voltage: 5.3VDC
- Operating input voltage: 5VDC (recommend P/N 164101, pg 67)

171715: 16 Characters x 2 Lines • 14-pin/terminals
- Display size: 2.5"L x 0.7"W
- Module size: 3.4"L x 1.2"W x 0.5"T

171723: 20 Characters x 2 Lines • 16-pin/terminals
- Display size: 3.3"L x 0.7"W
- Module size: 4.6"L x 1.5"W x 0.4"T

Part No.	Product No.	1	10	25
171715	AC162A	$17.95	$15.95	$14.29
171723	AC202A	22.95	19.95	17.95

Over 6,000 Products Stocked
- → Integrated Circuits
- → Interconnect Devices
- → Electronic Components
- → Power Products
- → Opto Electronics
- → Wiring Accessories
- → Electromechanical Devices
- → Computer Products

Point Six 16 x 4 Parallel LCD Module



- 16 x 4 character display (.78"H)
- Character font: 5 x 8 dots
- Input data: 40-bit or 8-bit interface available
- Display size: 2.4"L x 1.0"W x 0.06"T
- Module size: 3.4"L x 2.4"W x 0.25"T

Requires: 4.5V @ 2mA wall transformer (recommend P/N 164101, pg 67)

Part No.	Description	1	10	25
151933	16 x 4 parallel LCD	$19.95	$17.95	$14.95

LCD Serial Display



- Terminal style serial input
- Character display type
- 20 characters x 4 lines
- White EL backlight
- Low power 3V design
- 5 x 8 dot matrix
- Super twisted nematic display
- Gray display color mode
- Module size: 3.5"L x 2.0"W x 0.3" Thick

Part No.	Description	1	10	25
181809	LCD module	$79.95	$69.95	$62.95

VL 3½ & 4-Digit, 0.5" High Field Effect LCD Displays



- Compatible with socket P/N 78641 (2), pg 50
- Pin spacing: 0.1" centers
- 40-pin package (no connector required)
- Size: 2.0"L x 1.2"H x 0.1"D

17110: 4-Digit LCD



17110

- Digital multimeters, thermometers, pressure gauges, timers, clocks (12 or 24 hour format) and frequency counters

32230: 3½-Digit LCD



32230

- Digital voltmeters, thermometers, pressure gauges, timers, clocks
- Can be used with Intersil's 7106CPL (P/N 43748, pg 8)

Part No.	Description	1	10	25
17110	4-digit LCD w/ pins	$12.95	$11.49	$9.95
32230	3½-digit LCD w/ pins	12.95	11.49	9.95

TRISYS Serial LCD Interface Module

For Parallel LCD Displays with Hitachi 4480 Chipset



- Supports 1 x 8 thru 4 x 20 LCD display formats
- Provides word wrap, control character processing for display blanking, cursor blanking, up-down-left-right cursor controls
- Size: 1.5"L x 1.0"W

Part No.	Description	1	10	25
157981	LCD serial module	$24.95	$22.49	$19.95

Futaba 0.5" Blue Green Fluorescent Display



- 4-digit vacuum fluorescent display
- 10 bar indicators and a colon indicator
- Size: 3.9"L x 1.6"H x 0.8"W (leads: .75" long)

Part No.	Description	1	10	25
42112	4-digit display w/ colon	$1.99	$1.75	$1.59

0.6" High 3½-Digit & 4½- Digit LCD Digital Panel Meters



108388 175951 146835



123140

108388/146835:
- Single 9VDC operation – recommend P/N 151095, pg 82
- Maximum input: 199.9mVDC
- Maximum display: 1999 counts
- Accuracy: ±0.5%
- Automatic polarity indication
- Input impedance: >100MΩ
- Size: 2.7"L x 1.7"W

175951: • Includes bezel
146835: • Backlit display • Includes bezel
123140: • Supply voltage: 9-12VDC (recommend 9V battery P/N 151095, pg 83)

Part No.	Description	1	10	25
108388	3.5 LCD DPM	$14.95	$13.49	$11.95
175951	3.5 LCD DPM	12.95	11.95	10.95
146835	3.5 LCD (Backlit) ...	17.95	15.95	13.95
123140	4.5 LCD DPM	27.95	24.95	22.49

12-Button Numeric Keypad



- Rugged metal type
- 7-position PCB solder pads
- Tactile type keypad
- Contact rating: 24VDC @ 20mA
- Contact resistance: 200Ω max.
- Life test: 1,000,000 cycles per key
- Metal chrome body
- Size: 2.8"L x 2.2"W x 0.6"H

Part No.	Description	1	10	100
171491	Numeric keypad ..	$15.65	$14.05	$12.64

12-Button Numeric and Alpha/Numeric Keypads



153488

- Rugged white plastic
- 8-pin .100" header
- Tactile type keypad
- Contact rating: 12VDC @ 20mA
- Contact resistance: 200Ω max.
- Life test: 1,000,000 cycles per key
- Size: 2.8"L x 2.2"W x 0.6"H

Part No.	Description	1	10	100
190561	Numeric keypad	$6.95	$6.25	$5.59
153488	Alpha numeric keypad	7.95	6.95	6.25

16-Button Numeric Keypad



- Rugged black plastic
- 4 x 4 matrix keypad
- 8-position solder pad
- Contact rating: 24VDC @ 20mA
- Contact resistance: 200Ω max.
- Life test: 1,000,000 life cycles per key
- Size: 3.0"L x 2.8"W x 0.6"H

Part No.	Description	1	10	100
169244	Numeric keypad	$7.95	$6.95	$6.25

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16-Button Indoor/Outdoor Keypads



160071



103190

- 9-pin 0.100" headers
- Fully sealed snap-dome contact
- For indoor or outdoor use
- Contact rating: 24VDC @ 10mA resistive
- Life test: 3,000,000 cycles per key
- Compatible with MOS, TTL and DTL (10Ω max.)
- Recommended connector: P/N 103190 header & 100765 pin (✳10 pc min.)
- Size (housing): 4.7"W x 1.7"H x 0.4"T

✳ **Prepackaged: please order in increments of 10 or 100**

Part No.	Description	1	10	100
160071	2 x 8 matrix keypad	$12.95	$11.49	$9.95
103190	Header housing (10-pin) .. ✳	.19	.12	
100765	Header pin (10 per pack) .. ✳	.10	.06	

Industrial Panel Meter

0 to 1mA DC



- Low cost, high quality
- Basic DC accuracy to 0.3%
- UL recognized
- Direct replacement for: Yokogawa, Modutec, Jewell, WPIC, Hoyt, Crompton, Brighton
- DC Ranges: 0 – 1mA Taut Band
- Size: 1.5"L x 1.7"W x 1.7"H
- Depth: 1.2"

Part No.	Product No.	1	10	25
171897	PMG6S	$9.95	$8.95	$7.95

ME Micro Electronics LCD Dot Matrix Graphic Display



- 128 x 64 dot matrix display
- Display can be programmed to create a variety of sizes
- STN yellow green mode
- Operating voltage: 5V @ 1mA
- Operating current: .8mA on display mode and 1A on access mode (low power consumption)
- 180˚ viewing angle
- Built-in LCD driver IC: KS0708
- Easy interface with 8-bit MPU
- Module size: 3.0"W x 2.0"H x 0.1"T
- Display size: 2.8"W x 1.6"H

Part No.	Description	1	10
163176	Dot matrix graphics display	$44.95	$39.95

Up to 60% off!

Check out our clearance sale of hundreds of products

See pages 4 & 5 for complete details

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

Infrared Diodes and Visible Light Detectors

- Use for remote control and/or for fiber optics
- P/N 133946 can be used w/ cameras, see pgs 163-165 (peak emission wavelength: 940nm @ If 20mA)

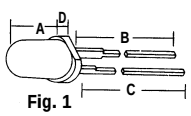


Fig. 1

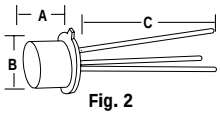


Fig. 2

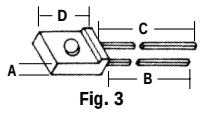


Fig. 3

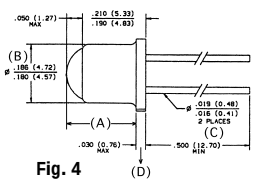


Fig. 4

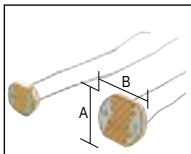

106526


172321

Part Number	Product Number	Fig.	Description	Size	Diameter inch/mm	Dimensions (inches) A	B	C	D	Vf @ If	nm	mWatts	Pricing 1	10	100	1000
112150	TLN100	1	Infrared diode	T1	0.125/3	0.18	0.95	0.98	0.03	1.2V @ 20mA	940	1.2	$.39	$.29	$.19	$.12
112176	IRD300	1	Infrared detector	T1	0.12/3	0.18	0.95	0.98	0.03	—	940	—	.39	.29	.19	.12
133946	SLI-0308CP	1	Infrared diode lamp	T1	0.12/3	0.22	0.98	1.00	0.03	1.7V @ 50mA	940	100	.75	.65	.49	.39
106526	TLN110	1	Infrared diode	T1¾	0.200/5	0.34	0.78	0.84	0.04	1.6V @ 20mA	940	9	.45	.35	.25	.15
112168	IRD500	1	Infrared detector	T1¾	0.200/5	0.31	1.05	1.10	0.04	—	940	—	.45	.35	.25	.15
120221	BPW77	2	Visible light detector	TO-18	—	0.24	0.19	0.52	—	—	800	—	2.25	1.95	1.75	1.49
172321	OP133	4	Infrared emitter	TO-46	—	0.22	0.18	1.05	0.2	1.8V @ 100mA	935	5	2.25	1.99	1.85	1.65
124020	TP104	3	Photo transistor	Rectangle	0.16/4	0.09	0.45	0.45	0.16	—	850	—	.49	.39	.35	.29

CDS Photocells

- Applications include: auto-focus lenses, exposure meters, contrast controls for TVs, dimmer or light switches, flame detectors, electronic toys, street lamp switches, optocouplers • Generate variable signal based on detection of light levels
- Operating temperature: -30°C to +70°C • Cadmium Sulfide (CDS) • Soldering: 230°C for 3 seconds



120301 120299

Part Number	Product Number	Size (inches) A	B	Rating Vp	mW	Resistance (Ω) Light	Dark	Lead Spacing (inches)	Lead Length (inches)	Pricing 1	10	100	1000
136063	CDST18	0.14	0.17	20	40	10k	100k	0.10	1.50	$.49	$.39	$.29	$.25
120310	CDS002	0.14	0.17	150	125	25k	2M	0.10	1.44	.55	.45	.35	.29
136047	CDST05	0.25	0.29	50	250	10k	100k	0.18	1.50	.45	.29	.19	.15
120301	CDS003	0.25	0.29	200	150	15k	500k	0.20	1.44	.69	.59	.49	.39
120299	CDS004	0.38	0.43	250	250	12k	1M	0.30	1.44	1.29	.99	.89	.69
136055	CDST08	0.40	0.44	50	250	10k	100k	0.30	1.50	.49	.39	.22	.15

650nm Line and Dot Laser Diodes

- Focus adjustable w/ locking set screw
- Wattage: 5mW
- Operating voltage: 3-5V
- Size: 3.3"L x 0.9"Dia.
- One-year warranty

Class IIIa Laser Product

167214: Dot (spot) laser module

Distance	Dia. of Dot
5M	5mm
8M	9mm
10M	13mm
15M	20mm



143845: Line laser module
- Laser line width: 1mm
- Laser fan angle: 60°


167214

143853: Laser module mount
Built to hold laser diode on target.
- X-Y tilt, θ movement
- Tightening screw for tilt adjustment


173243

173243: Cross hair laser diode module
- Operating voltage: 3-5V • Laser fan angle: 60°
- Female 2.1mm power connector
- Size: 3.0"L x 0.9"D

143837: Module regulated power supply
- Output: 5VDC @ 100mA • Short circuit protection
- Input voltage: 95-125VAC or 190-250 VAC switchable
- Size: 2.0"W x 1.7"D x 9.2"H • Weight: 0.6 lbs.

Part No.	Description	1	10
167214	Dot laser diode module	$81.35	$73.19
143845	Line laser diode module	109.95	99.95
143853	Laser diode module mount	49.95	39.95
173243	Cross hair laser diode mod.	79.95	72.95
143837	Regulated power supply	14.95	12.95

3-Element Glass Lens Red Laser Diode Module

Class IIIa Laser Product

This lens design uses 3-element glass to collect almost all the power from the laser diode resulting in a brighter spot than many typical laser applications.



- Operating voltage: 4.0–6.0VDC (recommend P/N 112070, pg 67)
- Maximum output: 4mW • For use with P/N 134148, below
- Beam size at 7m: oval – 5mm x 8mm • Wavelength: 660nm
- Beam divergence: 0.2mrad • Green LED indicator
- Module size: 2.0"L x 0.5"W • One-year warranty

Part No.	Description	Weight (lbs.)	1	10	25
133292	3-element glass laser diode	0.1	$44.95	$39.95	$35.95

60° Line Generating Lens

For use w/ laser module P/N 133292 (above)



- Adjustable focus range: 50 cm to ∞
- Focal length: 8.0mm
- Back focal length: 1.5mm
- Beam divergence: 2.0mrad
- Lens construction: 3E.3G (glass)
- Screws onto module (P/N 133292 above)
- Six-month warranty
- Fan angle: 60° • Length at 1 meter dist.: 1.70 m

Part No.	Description	1	10	25
134148	60° generating lens	$10.95	$9.95	$8.95

670nm Red Laser Diode Module

Class IIIa Laser Product





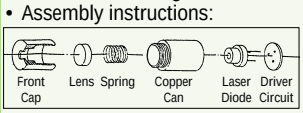
- Operates on 3VDC @ <5mW
- 670nm wavelength
- Beam diameter: 3.2mm
- Working distance: over 50 meters/yards (daylight), 200 meters/yards (dark)
- Size: 0.9"L x 0.3"Dia.
- One-year warranty

Part No.	Description	1	10	25
131203	Laser module, brass	$39.95	$35.95	$32.95

Over 6,000 Quality Products at Value Prices

Laser Diode Accessories

126244: Collimating lens
- Assembly instructions:




126244


161736

- One-year warranty

161736: Laser driver w/ regulator
- Input voltage: 2.6-6VDC
- Input current: 40mA
- Six-month warranty

Part No.	Description	1	10	25
126244	Collimating lens	$7.95	$6.95	$6.25
161736	Laser driver	7.95	6.95	6.25

650nm Orange Red Laser Diode



Class IIIa Laser Product



- Optical output power: ≤5mW maximum
- Operating current: 30mA
- Operating voltage: 2.6V maximum
- Lasting wavelength: 650nm typical
- 5.6mm packaging size
- Beam divergence of 11 degrees from center line maximum
- Compatible with collimating lens (P/N 126244) and driver (P/N 161736 above)
- One-year warranty

Part No.	Description	1	10	25
182932	650nm laser diode	$19.95	$17.95	$15.95



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Rocker Switches


190991

KG Series Non-Illuminated Rocker Switches

- Panel mount • Initial contact resistance: 10mΩ max. • Insulation resistance: 1000MΩ min. @ 500VDC
- Panel cut-out: 1.45"L x 0.83"W • Dielectric strength: 2000Vrms min. between terminals

Part Number	Product Number	Pins	Type ( ) Momentary	Dimensions L	W	D	Lead Spacing A	B	C	Contact Rating	Lead Type	Pricing 1	10	100	250
190991	KG312A2XXA21XX	2	SPST on-off	1.72"	0.79"	1.34"	—	0.27"	—	15A @ 250VAC	Solder	$2.95	$2.65	$2.39	$2.15
191003	KG412A2XXA21XX	4	DPST on-off	1.72"	0.79"	1.34"	0.43"	0.27"	—	15A @ 250VAC	Solder	3.49	3.15	2.81	2.55

AS Series Snap-In Rocker Switches

- Panel mount • Initial contact resistance: 10mΩ max. • Insulation resistance: 10,000MΩ min.
- Panel cut-hole: 0.73"L x 0.36"W • Dielectric strength: 1000Vrms min. between terminals


191011

Part Number	Product Number	Pins	Type ( ) Momentary	Dimensions L	W	D	Lead Spacing A	B	C	Contact Rating	Lead Type	Pricing 1	10	100	250
191011	AS36S010010	3	SPDT on-on	0.77"	0.41"	0.60"	—	0.19"	—	2A @ 250VAC	Solder	$1.69	$1.49	$1.35	$1.25
191038	AS37S010010	3	SPDT (on)-off-(on)	0.77"	0.41"	0.60"	—	0.19"	—	2A @ 250VAC	Solder	1.95	1.75	1.59	1.45
191046	AS38S010010	3	SPDT on-off-(on)	0.77"	0.41"	0.60"	—	0.19"	—	2A @ 250VAC	Solder	1.95	1.75	1.59	1.45
191020	AS39S010010	3	SPDT on-off-on	0.77"	0.41"	0.60"	—	0.19"	—	2A @ 250VAC	Solder	1.59	1.45	1.29	1.19

FM Series Illuminated/Non-Illuminated Rocker Switches

- Panel mount • Insulation resistance: 1000MΩ min. • Initial contact resistance: 20mΩ max.
- Panel cut-hole: 0.76"L x 0.51"W • Dielectric strength: 1500Vrms min. between terminals

*** 191118 (Illuminated):** Dielectric strength: 2500Vrms between terminals


191071

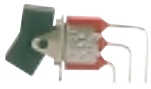

191118

Part Number	Product Number	Pins	Type ( ) Momentary	Dimensions L	W	D	Lead Spacing A	B	C	Contact Rating	Lead Type	Pricing 1	10	100	250
191071	FMC12A2200000	3	SPST on-off	0.74"	0.50"	0.49"	—	0.28"	—	6A @ 250VAC	Solder	$.65	$.59	$.49	$.45
191089	FMC32A2200000	3	SPST off-(on)	0.74"	0.50"	0.49"	—	0.28"	—	4A @ 250VAC	Solder	1.25	1.13	.99	.89
191097	FMC62A2200000	3	SPDT on-on	0.74"	0.50"	0.49"	—	0.28"	—	6A @ 250VAC	Solder	.79	.69	.65	.59
191100	FMC92A2200000	3	SPDT on-off-on	0.74"	0.50"	0.49"	—	0.28"	—	6A @ 250VAC	Solder	.89	.79	.72	.65
191118*	FML18A276A000	3	SPDT on-off	0.74"	0.50"	0.49"	—	0.28"	—	6A @ 250VAC	Quick discon.	1.29	1.19	1.09	.95

Rocker and Lever Type Switches

- Contact rating: 5A @ 120VAC; 2A @ 250VAC • Operating temperature: -30˚C to 85˚C
- Electrical life: 50,000 make and break cycles at full load • Contact resistance: 10milliΩ typical
- Insulation resis.: 10MΩ min. • Dielectric strength: 1000 VRMS @ sea level


181788


140530 (Vertical)


155045 (Horizontal)


163344


163336


173500

† Switch Positions on(off) — center Neutral — off(on)

Part No.	Product No.	Pins	Type	Dimensions (ins.) L	W	D	Lead Spacing	Lead Type	Pricing 1	10	100	1000
181788	RA910VBBOV	2	SPST on-off	.88	.47	.71	.265"	Panel mt. solder eyelet	$.59	$.45	$.39	$.29
140530	CK7101	3	SPDT on-on	.50	.50	.27	.150"	Right angle PC (vert)	1.25	1.05	.89	.75
155045	CK7101A3	3	SPDT on-on	.50	.50	.27	.185"	Right angle PC (horz)	.49	.39	.25	.19
163344	CKD103J5W	3	SPDT on-off-on	.67	.47	.59	.200"	Panel mount solder eyelet	.29	.25	.19	.15
163336	CK7201J60	6	DPDT on-on	.50	.45	.35	.200"	Panel mount lead pins	.14	.12	.11	.10
173500	300DP7 †	6	DPST	.50	.45	.34	.200"	Panel mount solder eyelet	.65	.49	.35	.25

SPST Round Keylock Switches

- Switches are used in computer and other security systems
- Key removable from 2 positions • Two keys
- Mounting hole = 0.75" except P/N 106649 = 0.5"

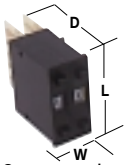
Includes: Mounting nut


106649



105831

Part No.	Product No.	No. Flat, Dia.	Length	Style	Terminal	Voltage/Current	1	10	50	100
106649	KS4B	2, .21"	.55"	SPST	Barrel	125VAC/3A	$2.95	$2.49	$2.25	$1.75
105831	KS3B	2, .66"	1.48"	SPST	.25" quick connect	125VAC/6A	3.95	3.75	3.25	2.95

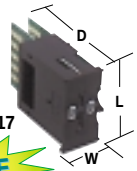


Push-Button Binary Coded Decimal (BCD) Switch

26788 (2 switches shown)

Thumbwheel Binary Coded Decimal (BCD) Switch

(2 switches shown) **26817**



Pushbutton and Thumbwheel Switch Specifications:

SALE

- Contact resistance: 100mΩ max.
- 1/16" maximum panel thickness
- Gold plated BE-CU alloy contacts
- Switches snap together
- Break before make
- Operating temperature: -40°C to +85°C
- Continuous load: 1 amp max. • 0.15A @ 50VAC/28VDC
- Front snap-tab mounting

Part No.	Product No.	Description	Size (L" x W" x D")	Char. Height	1	10	50	100
26788	MX72	10-position push-button	1.3 x 0.4 x 1.0	0.19"	$3.95	$3.75	$3.49	$3.25
26761	MXEP2	End plates for MX72	—	—	.45	.42	.39	.35
26817	MX83	10-position thumbwheel	1.1 x 0.1 x 1.5	0.25"	3.95	3.49	2.95	2.49
26770	MXEP3	End plates for MX83	—	—	.75	.65	.49	.39

Replacement Switches for Most Computer Cases

See page 133 for computer cases!

SALE

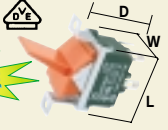
PC Push Button Switch



- Alternate action double pole switch
- Contacts rated at 250VAC
- UL/CSA/VDE approved
- Size: 0.9"L x 0.7"W x 0.9"D

Part No.	Description	Current	1	10	100
127044	PC push button	7.5A ..	$1.95	$1.75	$1.25
174238	PC push button	8A	1.49	1.25	.99

PC Toggle Switch

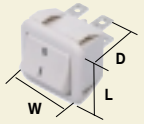


SALE

- Typical uses include many desktop and large tower cases
- Contacts rated at 250VAC
- DPST
- UL/CSA/VDE approved
- Size: 1.2"L x 0.7"W x 1.1"D

Part No.	Description	Current	1	10	100
127036	PC toggle	10A ..	$1.19	$1.09	$.95

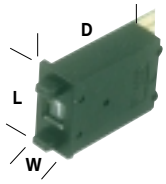
PC Rocker Switch



- For mini-tower cases • DPST
- Contacts rated at 250VAC
- UL/CSA approved
- Size: 0.9"L x 1.2"W x 1.4"D

Part No.	Description	Current	1	10	100
127028	PC rocker	10A ..	$1.95	$1.49	$.99

Mini Push-Button Binary Switch



- Operating temperature: -10˚C to +65˚C
- 28VDC @ 10A
- 0.12" character height
- Switches snap together
- Break before make
- Positive logic ("0" all open output)
- Size: .59"L x .30"W x 1.0"D

Part No.	Prod. No.	Description	1	10	100
136557	MX061	10 pos. straight	$3.49	$2.95	$2.49

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

Push Button Switches

* Contact rating: 3A @ 125VAC except P/N 106112 (3A @ 110VAC)
* Lead type: solder terminal except P/N 106112 (solder lugs) • 2-pins

Mountain Switch


Figure 1


Figure 2


Figure 3


Figure 4


Figure 5


Figure 6


Figure 7


Figure 8


Figure 9


Figure 10

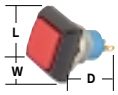
Part No.	Product No.	Fig.	Type ( ) Momentary	Dimensions	Lead Spacing	Mounting Hole	Button Color	Pricing 1	10	100	1000
Miniature Soft Touch Switches											
164486	DS463R	1	SPST off-(on)	1.2"L x .59"Dia.	.175"	.387"	Red	**$2.49**	**$2.29**	**$2.09**	**$1.89**
164494	DS450R	1	SPST off-on	1.2"L x .59"Dia.	.175"	.387"	Red	**2.49**	**2.29**	**2.09**	**1.89**
164507	DS463B	1	SPST off-(on)	1.2"L x .59"Dia.	.175"	.387"	Black	**1.59**	**1.49**	**1.45**	**1.39**
164523	DS466R	2	SPST off-(on)	1.2"L x .60"Dia.	.196"	.377"	Red	**2.49**	**2.29**	**2.09**	**1.89**
164558	DS471R	3	SPST off-(on)	1.24"L x .75"W x .6"D	.210"	.382"	Red	**1.59**	**1.49**	**1.45**	**1.39**
Standard Touch Switches											
164566	MS402R	4	SPST off-(on)	.73"L x .22"Dia.	.078"	.190"	Red	**$1.49**	**$1.39**	**$1.25**	**$1.15**
164582	DS016B	5	SPST off-(on)	.88"L x .46"Dia.	.220"	.354"	Black	**1.49**	**1.39**	**1.25**	**1.15**
164611	DS131B	6	SPST off-(on)	.97"L x .80"Dia.	.366"	.647"	Black	**1.53**	**1.47**	**1.42**	**1.39**
164638	MS3120R	7	SPST off-(on)	1.1"L x .31"Dia.	.175"	.268"	Red	**.89**	**.79**	**.69**	**.55**
164671	NS801MOB	8	SPST off-(on)	1.1"L x .59"Dia.	.213"	.468"	Black	**2.49**	**2.25**	**1.95**	**1.75**
106112*	DS412R	9	SPST off-(on)	.63"L x .66"Dia.	.275"	.750"	Red	**1.19**	**.99**	**.89**	**.85**
164689	DS430B	10	SPST off-(on)	1.03"L x .55"Dia.	.250"	.487"	Black	**1.09**	**.95**	**.89**	**.85**

Push Button Switches

IP Series Push Button Switches

APEM


171758



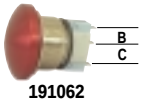
171766

- Panel mount • Initial contact resistance: 50mΩ max. • Insulation resistance: 1GΩ min. @ 500VDC
- Dielectric strength: 1500Vrms min. • Mechanical life: 1,000,000 cycles min. • Mounting hole: 1/2"Dia.

Part Number	Product Number	Pins	Type ( ) Momentary	Dimensions L	W	D	Lead Spacing A	B	C	Contact Rating	Lead Type	Pricing 1	10	100	250
171758	IPR3SAD2	2	SPST off-(on)	0.82"	—	0.46"	—	0.19"	—	0.2A @ 250VAC	Solder	**$8.95**	**$7.95**	**$6.95**	**$5.95**
171766	IPC3SAD6	2	SPST off-(on)	0.82"	0.69"	0.46"	—	0.19"	—	0.2A @ 250VAC	Solder	**12.95**	**11.95**	**10.95**	**9.95**

AV Series Push Button Switches


171774



191062

- Panel mount • Mounting hole: 3/4"Dia. • Insulation resistance: 1000MΩ min
- **171774:** Initial contact resistance: 10mΩ max. • Dielectric strength: 1000Vrms min.
- **191062:** w/ mushroom head actuator • Initial contact resistance: 100mΩ max. • Dielectric strength: 2000Vrms min.

Part Number	Product Number	Pins	Type ( ) Momentary	Dimensions L	W	D	Lead Spacing A	B	C	Contact Rating	Lead Type	Pricing 1	10	100	250
171774	AV191003C900	2	SPST off-(on)	1.20"	—	0.87"	—	0.37"	—	2A @ 48VDC	Screw	**$9.95**	**$8.95**	**$6.95**	**$5.95**
191062	AV22PNA62	3	SPDT off-(on)	1.41"	—	1.18"	—	0.24"	0.35"	5A @ 250VAC	Screw	**26.95**	**24.25**	**21.85**	**19.65**

Push Button Switches

- Alt = alternate action
- †† **P/N 163352:** Push button door switch
- † **Lead wires**
- ✳ **Prepackaged: please order in increments of 10**

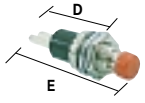


Figure 1

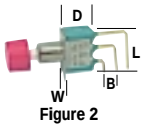


Figure 2

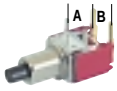


Figure 3

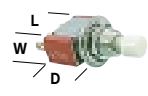


Figure 4



Figure 5

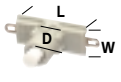


Figure 6



Figure 7

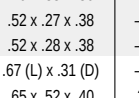
Part No.	Product No.	Fig.	Pins	Mounting Hole Dia.	Type ( ) Momentary	Dimensions (L" x W" x D")	Lead Spacing A"	B"	Contact Rating	Lead Type	Button Color	Pricing 1	10	100	250	OEM 1000
26622	MS102	1	2	1/4"	SPST off-(on)	.65 (D) x 1.10 (E)	—	.14	3A @ 125VAC	Solder lugs	Red	**$.49**	**$.39**	**$.32**	**$.25**	**$.22**
26649	MS103	1	2	1/4"	SPST on-(off)	.65 (D) x 1.10 (E)	—	.17	3A @ 125VAC	Solder lugs	Black	**.49**	**.39**	**.32**	**.25**	**.22**
154878	PS11-123	2	3	1/4"	SPST on-(on)	.50 x .27 x .37	—	.14	5A @ 125VAC	Solder, right angle	Red	**.69**	**.59**	**.49**	**.39**	**.29**
71642	SWB210	3	2	7/32"	SPST off-(on)	.20 x .33 x .36	.20	.20	1A @ 120VAC	PC right angle	Black	**1.49**	**1.25**	**1.09**	**.89**	**.75**
121304	CK8121	4	3	1/4"	SPDT on-(on)	.52 x .27 x .38	—	.185	5A @ 125VAC	Solder lugs	White	**3.49**	**2.95**	**2.49**	**2.25**	**1.95**
28062	PB126	4	3	1/4"	SPDT on-(on)	.52 x .28 x .38	—	.185	5A @ 120VAC	Solder lugs	Red	**3.49**	**2.95**	**2.49**	**2.25**	**1.95**
174414	R13-510A	7	2	1/2"	SPST off-(on)	.67 (L) x .31 (D)	—	.167	3A @ 125VAC	Solder lugs	Red	**1.49**	**1.25**	**1.09**	**.89**	**.75**
22200	J1881	5	2†	3/8"	SPST on-off, Alt	.65 x .52 x .40	.25	—	2A @ 14VDC	5" Pigtail	White	**1.09**	**.89**	**.75**	**.59**	**.55**
22218	J1882	5	2†	3/8"	SPST off-(on)	.65 x .52 x .40	.25	—	2A @ 14VDC	5" Pigtail	Red	**1.09**	**.89**	**.75**	**.59**	**.55**
163352††	23101MX1	6	2	7/16"	SPST off-(on)	1.1 x .51 x .35	—	—	1A @ 28VDC	Solder lugs	White	✳	**.11**	**.09**	**.07**	**.05**

Temperature Switches

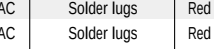
- Operational life: 100,000 cycles
- Contact resistance: 50mΩ or less

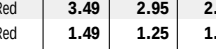
Texas Instruments

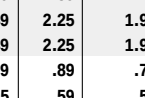
SALE


169682


169674


159636


169666


172374

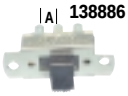
Part No.	Product No.	Temperature	Contact Current	Contact Voltage	Mounting	Terminal	Agency Approval	Weight (lbs.)	Pricing 1	10	100	1000
SPST – NC (Normally Closed) Temperature Switch												
169682	T24A145BRF120	145˚C (293˚F)	15A	125V	Flat surface	0.187" Quick disconnect	UL/CUL	.01	**$.99**	**$.89**	**$.79**	**$.69**
169674	T23A14BRF120	145˚C (293˚F)	15A	125V	Stud mount	M4 x 0.7 Stud	UL/CUL/VDE	.01	**1.19**	**1.09**	**.99**	**.95**
159636	7AM202	75˚C (167˚F)	5A	120V	PCB	1.64"L Leads	UL/CSA	.01	**.22**	**.19**	**.18**	**.16**
169666	T26095	95˚C (203˚F)	13.5A	125V	Panel	0.176" Quick disconnect	UL	.02	**.79**	**.65**	**.49**	**.39**
SPST – NO (Normally Open) Temperature Switch												
172374	T24B145BSF1-20	145˚C (293˚F)	15A	125V	Flat surface	0.187" Quick disconnect	UL/CUL	.02	**1.19**	**1.09**	**.99**	**.89**

Slide Switches

- Two mounting flanges • Top actuation • UL approved
- Black nylon actuator • Phenolic insulated • Metal housing

† Plastic housing – flanges

109170 

138886 

169842 

161816 

Part No.	Product No.	Pins	Type	Description	Dimensions L"	W"	D"	Lead Spacing (A")	Contact Rating	Lead Type	Length of Leads	Actuator Height	Pricing 1	10	100	250
109170	SW153	3	SPDT on-on	PC mount	.22	.45	.23	.12	0.5A @ 50VDC	Solder pins	.17"	.15"	$.35	$.29	$.22	$.17
138886	SW141	3	SPDT on-on	PC panel mount	.55	.90	.29	.25	5.0A @ 125VDC	Solder pins	.38"	.39"	.29	.26	.23	.21
169842	SW380	3	SPDT on-on	PC panel mount	.88	.54	.25	.21	10.0A @ 125VDC	Solder pins	.31"	.33"	.55	.49	.44	.39
161816	SW300A†	6	DPDT on-on	PC mount	.38	.14	.13	.11	0.1A @ 20VDC	Solder pins	.11"	.08"	.49	.45	.34	.24

Subminiature Toggle Switches

- Mounting hole diameter: 7/32" • Pre-tinned leads
- Metal construction

Includes: Mounting hardware

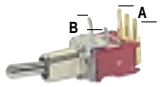
Fig. 1 

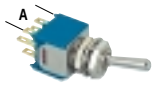
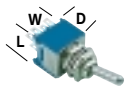
Fig. 2 

Fig. 3 

Part No.	Product No.	Fig.	Pins	Type	Dimensions (L" x W" x D")	Lead Spacing A"	B"	Contact Rating	Lead Type	Lever Type	Pricing 1	10	100	250	OEM 1000
106067	SWP124	1	3	SPDT on-on	.25 x .33 x .40	.20	.10	30mA @ 5VDC	PC right angle	Round	$1.49	$1.25	$1.09	$.89	$.75
72160	SW1501	2	2	SPST on-off	.33 x .21 x .33	.10	—	1.5A @ 250VAC	Solder lugs	Round	1.15	.95	.75	.55	.45
75969	SWM136	2	3	SPDT on-on	.33 x .21 x .33	.10	—	3A @ 125VAC	Solder lugs	Round	1.15	.95	.75	.55	.45
72557	SW1502	2	3	SPDT on-off-on	.33 x .21 x .33	.10	—	1.5A @ 250VAC	Solder lugs	Round	1.15	.95	.68	.42	.32
138907	SW1503	2	6	DPDT on-off-on	.36 x .37 x .33	.10	—	3A @ 120VAC	Solder lugs	Round	1.29	1.05	.85	.65	.55
75977	SWM137	3	6	DPDT on-on	.33 x .37 x .33	.17	.10	1.5A @ 250VAC	Solder lugs	Round	1.29	1.05	.85	.65	.55

Miniature Toggle Switches

- Mounting hole diameter: 1/4"

Includes: Mounting hardware

Fig. 1 

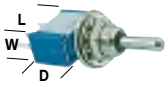
Fig. 2 

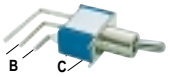
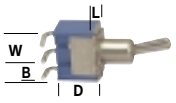
Fig. 3 

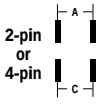
Fig. 4 

Part No.	Product No.	Fig.	Pins	Type ( ) Momentary	Dimensions L" x W" x D"	Lead Spacing A"	B"	C"	Contact Rating	Lead Type	Lever Type	Pricing 1	10	100	250	OEM 1000
76523	JMT113	1	2	SPST on-off	.52 x .32 x .38	—	.185	—	6A @ 125VAC & 3A @ 250VAC	Solder lugs	Round	$1.15	$.95	$.75	$.55	$.45
21936	JMT123	1	3	SPDT on-on	.52 x .32 x .38	—	.185	—	5A @ 125VAC & 2A @ 250VAC	Solder lugs	Round	1.15	.95	.75	.55	.45
21910	JMT121	1	3	SPDT on-off-on	.52 x .32 x .38	—	.185	—	5A @ 125VAC & 2A @ 250VAC	Solder lugs	Round	1.15	.95	.75	.55	.45
22832	LFH123	1	3	SPDT on-on	.52 x .28 x .36	—	.185	—	5A @ 125VAC & 2A @ 250VAC	Solder lugs	Flat	1.15	.95	.75	.55	.45
75854	SWM132	1	3	SPDT on-on	.52 x .32 x .38	—	.185	—	6A @ 125VAC & 3A @ 250VAC	Solder lugs	Round	1.15	.95	.75	.55	.45
75889	SWM129	1	3	SPDT (on)-off-(on)	.52 x .32 x .38	—	.185	—	6A @ 125VAC & 3A @ 250VAC	Solder lugs	Round	1.15	.95	.75	.55	.45
26331	MPC123	1	3	SPDT on-on	.52 x .32 x .37	—	.185	—	6A @ 125VAC & 3A @ 250VAC	PC	Round	1.15	.95	.75	.55	.45
26315	MPC121	2	3	SPDT on-off-on	.52 x .32 x .37	—	.185	—	5A @ 125VAC & 2A @ 250VAC	PC	Round	1.15	.95	.75	.55	.45
71597	SWM148	3	3	SPDT on-on	.52 x .32 x .38	—	.185	.20	5A @ 125VAC & 2A @ 250VAC	PC right angle	Round	1.15	.95	.75	.55	.45
75871	SWM145	4	3	SPDT on-on	.32 x .52 x .38	—	.185	.20	6A @ 125VAC & 3A @ 250VAC	PC right angle	Round	1.15	.95	.75	.55	.45
22841	LFH221	1	6	DPDT on-off-on	.52 x .52 x .38	.20	.185	—	3A @ 125VAC & 1A @ 250VAC	Solder lugs	Flat	1.29	1.05	.85	.65	.55
21979	JMT223	1	6	DPDT on-on	.52 x .52 x .38	.20	.185	—	5A @ 125VAC & 2A @ 250VAC	Solder lugs	Round	1.29	1.05	.85	.65	.55
22859	LFH223	1	6	DPDT on-on	.52 x .52 x .38	.20	.185	—	5A @ 125VAC & 2A @ 250VAC	Solder lugs	Flat	1.29	1.05	.85	.65	.55
105814	SWA208	1	6	DPDT on-(on)	.52 x .52 x .38	.20	.185	—	5A @ 125VAC & 2A @ 250VAC	Solder lugs	Round	1.29	1.05	.85	.65	.55
75900	SWM133	1	6	DPDT on-on	.52 x .52 x .38	.20	.185	—	6A @ 125VAC & 3A @ 250VAC	Solder lugs	Round	1.29	1.05	.85	.65	.55
21952	JMT221	1	6	DPDT on-off-on	.52 x .52 x .38	.20	.185	—	6A @ 125VAC & 3A @ 250VAC	Solder lugs	Round	1.29	1.05	.85	.65	.55
75951	SWM130	1	6	DPDT (on)-off-(on)	.52 x .52 x .38	.20	.185	—	6A @ 125VAC & 3A @ 250VAC	Solder lugs	Round	1.29	1.05	.85	.65	.55
26366	MPC223	1	6	DPDT on-on	.52 x .52 x .38	.20	.185	—	5A @ 125VAC & 2A @ 250VAC	PC	Round	1.29	1.05	.85	.65	.55
26358	MPC221	1	6	DPDT on-off-on	.52 x .52 x .38	.20	.185	—	5A @ 125VAC & 2A @ 250VAC	PC	Round	1.29	1.05	.85	.65	.55

Full Size Toggle Switches

- Panel mount • Mounting hole diameter: 1/2" • Full-size round lever
- Keyed plate indicates switch position • Medium duty

Includes: Mounting hardware and on/off plate † **Lead Wires**

2-pin or 4-pin 

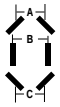
6-pin 

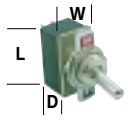
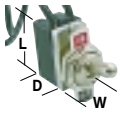
Fig. 1 

Fig. 2 

Part No.	Product No.	Fig.	Pins	Type	Dimensions L" x W" x D"	Lead Spacing A"	B"	C"	Contact Rating	Lead Type	Lever Type	Pricing 1	10	100	250	OEM 1000
76241	SWM128	1	2	SPST on-off	1.00 x .56 x .52	.23	—	—	4A @ 125VAC & 2A @ 250VAC	Solder lugs	Round	$1.25	$.99	$.79	$.59	$.45
158060	JKN32	1	4	DPST on-off	1.00 x .56 x .52	.23	—	.23	4A @ 125VAC & 2A @ 250VAC	Solder lugs	Round	1.25	.99	.72	.52	.36
76259	SWM126	1	6	DPDT on-on	1.12 x .77 x .60	.30	.60	.40	5A @ 125VAC & 3A @ 250VAC	Solder lugs	Round	1.49	1.19	.95	.75	.59
158078	JKN3CC	1	6	DPDT on-on	1.19 x .76 x .73	.44	.59	.44	10A @ 125VAC & 6A @ 250VAC	Screw lugs	Round	1.49	1.19	.95	.75	.59
76232	SWM125	2	2†	SPST on-off	1.00 x .53 x .51	—	—	—	6A @ 125VAC & 3A @ 250VAC	6" lead wire	Round	1.49	1.19	.95	.75	.59

Toggle Switches *(600H/600NH Series)*

- Initial contact resistance: 10mΩ max. • Insulation resistance: 1000MΩ min. @ 500VDC
- Mounting hole: 1/2"Dia. • Dielectric strength: 2000Vrms min.

172144 

172110 

Part Number	Product Number	Pins	Type	Dimensions L	W	D	Lead Spacing A	B	C	Contact Rating	Lead Type	Pricing 1	10	100	250
172144	631NH/2	2	SPST on-off	1.16"	0.47"	0.60"	—	0.58"	—	15A @ 250VAC	Fast-On	$2.95	$2.65	$2.39	$2.15
172110	641H/2	4	DPST on-off	1.17"	0.84"	0.80"	0.45"	0.58"	—	15A @ 250VAC	Fast-On	6.95	6.49	5.95	5.49

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Part Number Color Code Legend
NEW SALE REFURBISHED CLOSEOUT

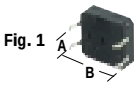
JAMECO

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

Tactile Switches

- Switching capacity: 50mA @ 12VDC resistive load
- Bounce time: 10 msec.
- SPST Momentary on
- Contact resistance: 100mΩ

✳ **10 piece minimum**


Fig. 1

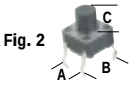

Fig. 2


Fig. 3


Fig. 4


Fig. 5


Fig. 6


Fig. 7

Part No.	Product No.	Fig.	Pins	Dimensions (L" x W" x D")	Lead Spacing A"	B"	C"	Lead Contact Rating	Type	Button Color	Pricing 1	10	100	250
137189	PBS103	1	4	.47 x .47 x .17	.20	.50	—	50mA @ 12VDC	PC	Black	$.35	$.29	$.25	$.15
122972	DTS1212	1	4	.47 x .47 x .18	.20	.50	—	20mA @ 15VDC	PC	Black	.29	.25	.19	.15
119010	KTIIBICM	2	4	.24 x .24 x .15	.17	.25	.03	20mA @ 15VDC	PC	Black	✳	.19	.17	.13
153251	SDTX620K	2	4	.24 x .24 x .15	.17	.25	.06	150mA @ 12VDC	PC	Black	.29	.25	.15	.12
149948	KT11P4CM	2	4	.24 x .24 x .15	.17	.25	.17	20mA @ 15VDC	PC	Black	✳	.19	.15	.12
115086	KIE22	3	2	.24 x .24 x .22	—	.25	—	20mA @ 15VDC	PC	Blue	✳	.19	.11	.09
155248	KRS-3550-BK	4	2	.24 x .14 x .15	—	.27	—	50mA @ 12VDC	PC	Black	.29	.25	.19	.15
155256	KRS-3550-WH	4	2	.24 x .14 x .15	—	.27	—	50mA @ 12VDC	PC	White	.39	.35	.25	.15
175652	PBS35	5	4	.31 x .31 x .10	.20	.35	—	20mA @ 15VDC	PC	Black	✳	.24	.21	.19
155379	KRS-1273B	5	4	.47 x .47 x .14	.17	.53	.14	50mA @ 12VDC	PC	Brown	.39	.29	.25	.19

Tactile Switch Caps

Part No.	Product No.	Fig.	Description	Size (inches)	Material	For Use With	Color	1	10	100	250
155389	KRS-CAP-A	6	Square switch cap	.47"L x .47"W x .16"H	Plastic	P/N 155379	Black	✳	$.06	$.05	$.04
155408	KRS-CAP-B	7	Round switch cap	.5"Dia. x .25"H	Plastic	P/N 155379	Black	✳	.15	.12	.09

OMRON B3F Series Miniature Tactile Key Switches

Miniature, low profile and easy mounting. Ideal for applications such as audio, office and communications equipment, measuring instruments, TVs, VCRs, etc.

- Extended mechanical/electrical service life
- Flux-tight base structure allow automatic soldering of the keyswitches onto a PC board


162886


188787

Part No.	Type	Operating Force	Dimensions (H x Pitch)	1	25	50	100
162886	B3F-1000	General purpose 100g	4.3 mm x 6.5 mm	$.25	$.23	$.21	$.19
188779	B3F-1002	General purpose 150g	4.3 mm x 6.5 mm	.29	.27	.25	.21
188787	B3F-1050	High-force 260g	7.3 mm x 6.5 mm	.29	.27	.25	.21

OMRON B3S Series Key Switches

Surface mount mechanical keyswitch for high-density packaging.

- Sealed construction allows immersion cleaning
- Ground terminal available to protect against static electricity


188795

Part No.	Type	Operating Force	Dimensions (L" x W" x H")	1	25	50	100
188795	B3S-1000	General purpose 100g	0.26 x 0.24 x 0.17	$.45	$.41	$.39	$.36
188808	B3S-1002	High-force 260g	0.26 x 0.24 x 0.17	.45	.41	.39	.36

Excell Rotary DIP Switches

- Gold plated contacts to ensure reliable, low resistance connection
- Fully sealed construction • Terminals: PC pin leads • Life: 10,000 cycles min.
- Material: 94V-0 grade, UL approved fire retardant plastic
- Max. switching load rating: 25mA @ 24VDC • Op force: 500gf-cm max.


139635


139651

Part No.	Product No.	Position	Adjust	Code Type	Size (W" x D" x H")	1	10	50	100
139635	ERD110RS(DRD10)	10	top	BCD	0.39 x 0.39 x 0.20	$2.95	$2.49	$2.25	$1.95
139651	ERD116RS	16	top	Hex	0.39 x 0.20 x 0.39	2.95	2.49	2.25	1.95

OMRON General Purpose Switches


187952 (Fig.1)


187979 (Fig. 2)


187995 (Fig. 3)


188015 (Fig. 4)


188023 (Fig. 5)


188031 (Fig.6)

- Terminal type: screw terminal • Contact form: SPDT
- Service life: 20 million cycles (mechanical); 500,000 cycles (electrical)
- Rated voltage: 15A @ 250VAC
- Dimensions: 1.94"L x 0.69"W x 0.95"H


187961 (Fig. 7)

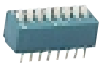

187987 (Fig. 8)

Part No.	Product No.	Actuator Type	Fig.	1	25	50	100
187952	Z-15GD-B	Short spring plunger	1	$7.95	$7.15	$6.49	$5.79
187961	Z-15GK355-B	Spring plunger	7	12.95	11.49	10.49	9.49
187979	Z-15GQ21-B	Panel mount cross roller plunger	2	12.95	11.49	10.49	9.49
187987	Z-15GQ22-B	Panel mount roller plunger	8	12.95	11.49	10.49	9.49
187995	Z-15GQ55-B	Panel mount plunger	3	12.95	11.49	10.49	9.49
188007	Z-15GQ-B	Panel mount plunger	3	9.15	8.25	7.45	6.75
188015	Z-15GW22-B	Short hinge roller lever	4	6.89	6.15	5.59	4.95
188023	Z-15GW2-B	Hinge roller lever	5	7.25	6.59	5.95	5.39
188031	Z-15GW-B	Hinge lever	6	8.95	7.95	7.19	6.49

DIP Switches

SALE


139002


38842


139011


38800

- Switch contacts: SPST • Pre-tinned leads
- Easy activation • 50VDC @ 100mA
- Switches are numbered • Molded construction
- Standard switches have raised lever
- LP switches are flush to casing

Compatible Socket Chart, see page 50

Switch	Socket	Switch	Socket	Switch	Socket
109057	112192	38834	37161	38797	38607
38818	51570	38842	37372	38800	39378
139002	51570	139011	37372		
38826	37161	101856	38113		

Part No.	Prod. No.	Pos.	1	10	100	1000
109057	206-2	2	$.69	$.59	$.47	$.36
38818	206-4	4	.79	.65	.55	.45
139002	206-4LP	4	.79	.65	.55	.45
38826	206-6	6	.79	.65	.45	.35
38834	206-7	7	.79	.65	.55	.45
38842	206-8	8	.81	.67	.57	.47
139011	206-8LP	8	.79	.65	.55	.45
101856	206-9	9	.65	.55	.45	.29
38797	206-10	10	.99	.75	.55	.39
38800	206-12	12	1.09	.99	.85	.75

Tri-State DIP Switch



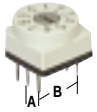
- Switch contacts: bussed, tri-state
- Labeled tri-state positions (+, 0, -)
- Contact rating: 24VDC @ 25mA
- Two isolated busses • Pre-tinned leads
- Compatible socket, use P/N 37372, pg 50

Part No.	Prod. No.	Pos.	1	10	50	100
138991	ETA108E	8	$1.95	$1.75	$1.49	$1.15

APEM Rotary DIP Switches

PT Series Top Adjustment

- Initial contact resistance: >80mΩ max.
- Insulation resistance: >100MΩ min.
- Contact rating: 0.4A @ 24VDC
- Lead type: solder
- 6-pins • PCB mount
- Lead spacing: 0.3" (A); 0.1" (B)
- Dimensions: 0.39"L x 0.39"W x 0.26"D


191126

Part No.	Prod. No.	Type	Pos.	1	10	100	250
191126	PT65101	BCD	10	$2.29	$2.05	$1.85	$1.65
191134	PT65103	Hex	16	2.89	2.59	2.35	2.11

Rotary Switches

- Panel mount • Make before break
- Solder lugs • Layers: 1
- Contact rating: 30VDC @ 0.3A
- Insulation resistance: 10MΩ min.
- Contact resistance: 30mΩ
- Lug size: 0.07"
- Material: solid brass bushings, slotted aluminum shafts, plated frame, phenolic contact wafer (except for P/N 101565 – plastic casing)
- Mounting hole diameter: 3/8"
- Compatible with Jameco rotary knobs P/N 102787 and 104176, pg 60


101573

Includes: Washer and nut

Part No.	Prod. No.	Poles	Pos.	Shaft Size (L" x Dia.")	Pricing 1	10	100
101531	RS0261	1	12	0.46 x 0.25	$1.19	$.95	$.75
101573	RS022	2	6	0.46 x 0.25	1.19	.95	.75
101565	RS023	3	4	1.16 x 0.25	1.19	.95	.75
101557	RS024	4	3	0.46 x 0.25	1.09	.81	.60

Jameco offers 30 day return privilege!

OMRON SS Basic Switches

- Economical, subminiature basic switch offers long service life (30 million operations min.)
- Free from overtravel restrictions, permit easy setting
- Contact form: SPDT
- Dimensions: 0.78"L x 0.25"W x 0.40"H

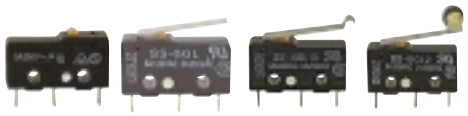


Fig.1 Fig. 2 Fig. 3 Fig. 4

Part No.	Product No.	Actuator Type	Contact Force	Terminal Type	Contact Rating	Fig.	1	25	50
187661	SS-5	Pin plunger	150g	Solder terminal	3A @ 250VAC	1	$1.49	$1.15	$.95
187670	SS5-D	Pin plunger	150g	PCB, straight vertical	3A @ 250VAC	1	1.23	1.11	.99
187688	SS-5-F	Pin plunger	50g	Solder terminal	3A @ 250VAC	1	1.69	1.29	1.09
187696	SS-5-FT	Pin plunger	150g	Tab #110 terminal	3A @ 250VAC	1	1.23	1.10	.99
187709	SS-5GL	Hinge lever	50g	Solder terminal	3A @ 250VAC	2	1.59	1.45	1.29
187717	SS-5GL13	Simulated roller hinge	50g	Solder terminal	3A @ 250VAC	3	1.69	1.49	1.35
187725	SS-5GL13T	Simulated roller hinge	50g	Tab #110 terminal	3A @ 250VAC	3	1.18	1.06	.96
187733	SS-5GL2	Hinged roller	50g	Solder terminal	3A @ 250VAC	4	1.45	1.31	1.18
187741	SS-5GL2T	Hinged roller	50g	Tab #110 terminal	3A @ 250VAC	4	2.45	2.19	1.95
187750	SS-5GLT	Hinge lever	50g	Tab #110 terminal	3A @ 250VAC	2	1.23	1.11	.99
187768	SS-5T	Pin plunger	150g	Tab #110 terminal	3A @ 250VAC	1	1.35	1.15	—
187645	SS-10D	Pin plunger	150g	PCB, straight vertical	10.1A @ 250VAC	1	2.69	2.45	2.35
187653	SS-10GL	Hinge lever	50g	Solder terminal	10.1A @ 250VAC	2	2.25	1.65	1.40

OMRON Basic Switches

- Terminal type: bottom • Contact form: SPDT
- Dimensions: 1.49"L x 0.41"W x 0.63"H
- Service life: 50 million cycles mechanical; 300,000 cycles electrical
- Service life: 50 million cycles mechanical; 100,000 cycles electrical

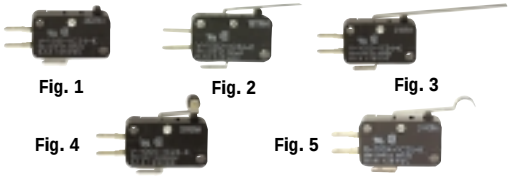


Fig. 1 Fig. 2 Fig. 3 Fig. 4 Fig. 5

Part No.	Product No.	Actuator Type	Contact Rating	Fig.	1	25	50
187776	V-10G-1C24-K	Pin plunger	10A @ 250VAC	1	$1.85	$1.67	$1.51
187784	V-10G-1C25-K	Pin plunger	10A @ 250VAC	1	2.59	2.35	2.19
187792	V-10G2-1C24-K	Hinge lever	10A @ 250VAC	2	2.59	2.35	2.19
187805	V-10G3-1C24-K	Long hinge	10A @ 250VAC	3	2.75	2.49	2.29
187813	V-10G4-1C25-K	Formed hinged	10A @ 250VAC	5	2.79	2.49	2.25
187821	V-10G5-1C24-K	Short hinge roller	10A @ 250VAC	4	2.95	2.65	2.39
187830	V-10G5-1C25-K	Short hinge roller	10A @ 250VAC	4	2.25	1.95	1.79
187848	V-15G-1A5-K	Pin plunger	15A @ 250VAC	1	2.49	2.25	1.95
187856	V-15G-1C25-K	Pin plunger	15A @ 250VAC	1	1.85	1.67	1.51
187864	V-15G-1C26-K	Pin plunger	15A @ 250VAC	1	1.95	1.49	1.25
187872	V-15G2-1C25-K	Hinge lever	15A @ 250VAC	2	2.69	2.39	2.19
187881	V-15G2-1C26-K	Long hinge	15A @ 250VAC	3	2.59	2.35	2.19
187899	V-15G3-1C25-K	Long hinge	15A @ 250VAC	3	2.89	2.65	2.39
187901	V-15G3-1C26-K	Long hinge	15A @ 250VAC	3	2.05	1.85	1.67
187910	V-15G4-1C25-K	Formed hinge	15A @ 250VAC	5	1.98	1.78	1.61
187928	V-15G5-1C25-K	Short hinge roller	15A @ 250VAC	4	3.19	2.89	2.65
187936	V-15G5-1C26-K	Pin plunger	15A @ 250VAC	1	2.25	1.95	1.79
187944	V-15G6-1C25-K	Hinge roller	15A @ 250VAC	4	3.19	2.89	2.65

HIGHLY Click Action Basic Precision Switches

- 3 terminals: common; normal closed; normal open
- Dielectric strength: 1000VAC 50/60Hz for 1 min.
- Insulation resistance: 100MΩ min. (@ 500VDC) • Type: NO-NC-common

159599 159572 159581



Part Number	Product Number	Description	Rating	Contact Resistance (initial)	Service Life Mechanically	Service Life Electrically	Terminals Type	Agency Approval	Pricing 1	Pricing 10	Pricing 100
159599	SS0505A	Subminiature	5A @ 125VAC	30milliΩ max.	10 million	200,000	.127" quick discon.	UL	$1.95	$1.49	$.99
159572	VS10N051C	Micro (T90S1D12-12)	10A @ 250VAC	15milliΩ max.	10 million	100,000	.183" quick discon.	UL/CSA	1.95	1.49	.99
159581	VS10N021C2	Micro	10A @ 250VAC	15milliΩ max.	10 million	100,000	.183" quick discon.	UL/CSA	1.95	1.49	.99

OMRON D2F Series Subminiature Snap-Action Switches

Super compact, for PCB mounting. Ideal for a wide variety of applications from household appliances and office equipment to audio and communications equipment.

- Dimensions: 0.50"L x 0.23"W x 0.26"H
- Long life span assured by high-precision dual spring reverse-action mechanism • Contact form: SPST
- Flux penetration prevented by using an insert terminal and allowing a height difference at the case bottom



188816 (Fig. 1) 188824 (Fig. 2)

Part No.	Product No.	Actuator Type	Contact Type	Contact Force	Contact Rating (125VAC/30VDC)	Fig.	1	25	50
188832	D2F-01F	Pin plunger	Microvoltage/ current	Low force (75g)	0.1A/0.1A	1	$.99	$.89	$.79
188824	D2F-01	Pin plunger	Microvoltage/ current	Standard (150g)	0.1A/0.1A	1	.99	.80	.69
188816	D2F	Pin plunger	General purpose	Standard (150g)	3A/2A	1	.99	.80	.69
188841	D2F-01L	Hinge lever	Microvoltage/ current	Standard (80g)	0.1A/0.1A	2	1.09	.99	.89
188859	D2F-FL	Hinge lever	General purpose	Low force (25g)	3A/2A	2	1.09	.99	.89
188867	D2F-L	Hinge lever	General purpose	Standard (80g)	3A/2A	2	1.09	.99	.89

PCB Plunger Switch

Use in Place of Shorting Block

SALE

- SPST (on/off)
- Contact rating: 50mA @ 24VDC
- Non-removable plunger
- Size: 0.2"W x 0.1"D x 0.38"H
- Lead length: 0.1"L

✳ 10 piece minimum



Part No.	Description	10	100	1000
172700	Plunger switch ..... ✳	$.15	$.11	$.08

Grayhill Single Deck Rotary Switch

- Panel mount • Fixed stop
- 1/8" screwdriver slotted shaft
- 36° angle of throw
- Single pole, 5-positions
- Contact resistance: 20mΩ max.
- Insulation resistance: 1,000MΩ minimum between mutually insulated parts • 0.06" solder terminals
- Material: stainless steel shaft and detent contact springs; brass terminals (gold plated over nickel plate); zinc, cadmium plated bushing



Part No.	Product No.	1	10	100
184727	50AB36-01-1-5-F	$3.95	$2.95	$2.35

Magnetic Reed Switches



164081

SALE

- NO (normally open)
- Can be activated with rare earth magnet(P/N 167100, pg 175)
- Contact form: SPST

171871: • Rating: 500mA @ 100VDC
- Size: 1.73"L x 0.1"Dia. (length includes leads)

164081: • Rating: 1A @ 250VAC; 1A @ 50VDC
- Size: 2.35"L x 0.2"Dia. (length includes leads)

Part No.	Product No.	1	10	100	1000
171871	MKA141011015	$.79	$.65	$.55	$.45
164081	MRS1	.89	.69	.56	.39

Honeywell Snap Action Switch

NEW

- Contact Form: SPDT
- Contact rating:10A@250VAC
- Mechanical life: 10,000,000 cycles
- Electrical life @ full rated load: 1,000,000 cycles
- Actuator type: pin plunger
- 0.220" solder terminal • Size: 1.1"L x .38"W x .63"H



Part No.	Product No.	1	10	100
191388	V3-715	$1.95	$1.49	$.99

See page 44 for Relay Sockets!

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

General Purpose Relays

• DPDT • 8-pins

Pin Type Terminals – Series 78

• Contact voltage: 240VAC

Pin Type Terminals – Series 250

• Contact rating: 120/240VAC, 28VDC @ 10A
• Ambient temp. operating: -10˚C to +50˚C
• Size: 1.4"L x 1.4"W x 2.7"H





SALE
139740
172718
155096

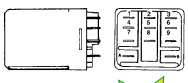
Part Number	Product Number	NTE Cross Reference	Coil (voltage)	Pricing 1	10	50
		Series 78				
172718	SCL12DPDT	K10UP21D1512	12VDC	$4.95	$4.49	$3.95
		Series 250				
139766	BTA1-2C-12VDC	R02-11D10-12	12VDC	$6.95	$6.25	$4.95
139740	BTA1-2C-120VAC	R02-11A10-120	120VAC	6.95	6.25	4.95

Relay Type Project Cases

Part No.	Product No.	No. of .Pins	Compatible Sockets	1	10	100
155096	RC8	8	141145 (pg 44)	$2.25	$1.95	$1.75
155088	RC11	11	141153 (pg 44)	1.95	1.75	1.59

Quick Connect Blade Terminals – Series 388

Flat terminals (0.187" x 0.020") for standard plug-in mounting; also accept quick-connect receptacles or direct soldering.


DPDT 3PDT

SALE
139862

• Contact rating: 120VAC/28VDC @ 13A/240VAC @ 10A
• Ambient temp. operating: -30˚C to +50˚C
• Size: 1.5"L x 1.4"W x 2.2"H

Part Number	Product Number	NTE Cross Reference	Coil (voltage)	Style	Pins	Pricing 1	10	50
139862	BTA1-2C-24VDC	R02-11D10-12	24VDC	DPDT	8	$5.95	$4.95	$4.25
139854	BTA2-3C-24VDC	R10-14D10-24	24VDC	3PDT	11	6.95	6.25	4.95
139838	BTA2-3C-120VAC	R10-14A10-120	120VAC	3PDT	11	5.95	4.95	4.25

Rayex General Purpose Relays

Potter and Brumfield Type LB2 Series

• DPDT • 8-pins
• Contact rating: 240VAC/30VDC @ 12A
• Mechanical life: 10,000,000 operations
• Electrical life: 100,000 operations min. at rated load


175564

175572

Part Number	Product Number	P & B Cross Reference	Coil Voltage	Pricing 1	10	50	100
172718	SCL12DPDT	K10UP21D1512	12VDC	$4.95	$4.49	$3.95	$3.49
175564	LB2-24DS	K10UP11D1524	24VDC	4.75	4.25	3.75	3.25
175572	LB2-110AS	K10UP11A15120	110VAC	4.95	4.49	3.95	3.49

Rayex LB2 Socket • Din rail snap socket for LB2 relays

Part Number	Product Number	P & B Cross Reference	Pins	Pricing 1	10	50
175530	PTF08AA	27E895	8	$3.95	$3.49	$2.95


175530

Rayex LB2H Series

• DPDT • 8-pins
• Contact rating : 240VAC/24VDC @ 10A
• Mechanical life: 10,000,000 operations
• Electrical life: 100,000 operations min. at rated load


175581

SALE
175599

Part Number	Product Number	P & B Cross Reference	Coil Voltage	Pricing 1	10	50	100
175581	LB2H-24DS	KHAU11D1124	24VDC	$3.55	$3.16	$2.85	$2.56
175599	LB2H-110AS	KHAU11A11120	110VAC	3.95	3.75	3.39	2.95

Rayex LB2H Socket • Din rail snap socket for LB2 relays

Part Number	Product Number	P & B Cross Reference	Pins	Pricing 1	10	50
175548	PYF08AA	—	8	$3.95	$3.49	$2.95


175548

Rayex LB4H Series

• Mechanical life: 10,000,000 operations • 4PDP
• Insulation resistance: 1,500MΩ @ 500VDC • 14-Pins
• Electrical life: 100,000 operations min. at rated load
• Contact rating: 240VAC/24VDC @ 5A


175601

SALE
175610

Part No.	Product No.	P&B Cross Ref.	Coil Voltage	1	10	50	100
175601	LB4H-24DS	KHAU17D1224	24VDC	$3.95	$3.52	$3.17	$2.85
175610	LB4H-110AS	KHAU17A12120	110VAC	4.25	3.85	3.45	—

Same business day shipping until 6:00 p.m. EST.
See page 182 for Zone Chart



OMRON G7L General Purpose Relays

• High capacity, high withstand voltage relay compatible with momentary voltage drops
• No contact chattering for momentary voltage drops up to 50% of rated voltage
• UL class B construction standard
• Wide range AC activated coil that handles 100 to 120 VAC at either 50 or 60Hz
• Miniature hinge for maximum switching capacity, particularly for inductive loads
• Conforming to IC 950
• Dimensions: (**187469/187485**) 2.75"L x 1.30"W x 2.40"H; (**187451/187477**) 2.70"L x 1.40"W x 2.40"H
• Coil voltage: 100/120VAC
• Contact voltage: 220VAC


187469

187477

Part Number	Product Number	Terminals	Contact Form	Contact Current	Pricing 1	25	50
187451	G7L1ABUBJCB	4	SPST(NO)	30A	$16.49	$14.79	$13.39
187469	G7L1ATUBJCB	4	SPST(NO)	30A	11.95	10.75	9.69
187477	G7L2ABUBJCB	6	DPST(NO)	25A	16.95	15.25	13.69
187485	G7L2ATUBJCB	6	DPST(NO)	25A	12.49	11.25	10.15

OMRON LY General Purpose Relays

• Arc barrier equipped • Pins: 8
• Contact voltage: 110VAC/24VDC
• High dielectric strength (2,000 VAC)
• Long dependable service life assured by AgCDO contacts
• Dimensions: 1.10"L x 0.85"W x 1.4"H


187493

187514

Part Number	Product Number	Coil Voltage	Coil Current	Contact Form	Pricing 1	10	50
187506	LY1AC24	24	15A	SPDT	$6.69	$5.95	$5.39
187493	LY1AC110/120	110/120	15A	SPDT	6.69	5.95	5.39
187522	LY2AC24	24	10A	DPDT	7.59	6.79	5.95
187514	LY2AC110/120	110/120	10A	DPDT	7.59	6.79	5.95

OMRON MK2 General Purpose Relays

• Contact voltage: 250VAC/28VDC • Pins: 8
• Long life (minimum 100,000 electrical operations) assured by silver contacts
• Built-in operation indicator (mechanical LED), diode surge suppression and varistor surge suppression
• Contact operation can be easily checked by mechanical indicator and/or push-to-test button options
• Conforms to CENELEC standards
• Dimensions: 1.36"L x 1.36"W x 2.07"H


187549

Part Number	Product Number	Coil Voltage	Contact Form	Contact Current	Pricing 1	10	50
187549	MK2PNSAC24	24	DPDT	10A	$11.95	$11.25	$10.49
187531	MK2PNSAC120	120	DPDT	10A	12.95	12.19	11.49

OMRON MY General Purpose Relays

Great for Sequence Control and Power Switching Applications

• Max. switching current: two-pole/10A, four-pole/5A
• Environment-friendly cadmium-free contacts

187557/187565: • Contact form: DPDT • Pins 8
• Dimensions: 1.0"L x 0.93"W x 1.40"H

187573: • Contact form: 4PST • Pins: 14
• Dimensions: 1.10"L x 0.85"W x 1.40"H


187557

Part Number	Product Number	Coil Voltage	Coil Res. Ω	Contact Current	Pricing 1	10	50
187565	MY2AC24	24	180	5A	$5.39	$4.79	$4.29
187557	MY2AC110/120	110/120	4430	5A	5.59	4.95	4.45
187573	MY4AC110/120	110/120	4430	3A	6.59	5.95	5.29

General Purpose and Power Relays


Fig. 1


Fig. 2


Fig. 3


Fig. 4


Fig.5


Fig.6

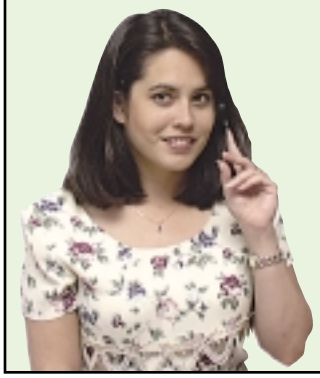

Fig. 7


Fig.8

Part Number	Product Number	P & B Cross Ref.	Fig.	Coil Voltage	Coil Res. (Ω)	Contact Form	Contact Voltage	Contact Current	Term	Type	Termination	Pricing 1	10	50
183775	GH2C24A	PRD11AG024	1	24VAC	12	DPDT	240VAC/28VDC	30A	8	Power	Screw Terminal	**$28.95**	**$24.95**	**$21.95**
183783	GH2C120A	PRD11AG0120	1	120VAC	290	DPDT	240VAC/28VDC	30A	8	Power	Screw Terminal	**28.95**	**24.95**	**21.95**
183791	GH2C12D	PRD11DG012	1	12VDC	71	DPDT	240VAC/28VDC	30A	8	Power	Screw Terminal	**23.95**	**20.95**	**18.95**
183804	GH2C24D	PRD11DG024	1	24VDC	288	DPDT	240VAC/28VDC	30/25A	8	Power	Screw Terminal	**23.95**	**20.95**	**18.95**
183812	GTS1C24A	KUHP5A5124	2	24VAC	72	SPDT	240VAC/28VDC	30/25A	5	Power	Quick Connect	**12.95**	**11.49**	**10.49**
183821	GTS1C120A	KUHP5A51120	2	120VAC	1700	SPDT	240VAC/28VDC	30/25A	5	Power	Quick Connect	**12.95**	**11.49**	**10.49**
183839	GTS1C12D	KUHP5D5112	2	12VDC	120	SPDT	240VAC/28VDC	30/25A	5	Power	Quick Connect	**12.95**	**11.49**	**10.49**
183847	GTS1C24D	KUHP5D5124	2	24VDC	472	SPDT	240VAC/28VDC	30/25A	5	Power	Quick Connect	**12.95**	**11.49**	**10.49**
183855	GTS2C24A	KUHP11A5124	2	24VAC	72	DPDT	240VAC/28VDC	20A	8	Power	Quick Connect	**13.95**	**11.95**	**10.29**
183863	GTS2C120A	KUHP11A51120	2	120VAC	1700	DPDT	240VAC/28VDC	20A	8	Power	Quick Connect	**13.95**	**11.95**	**10.29**
183871	GTS2C12D	KUHP11D5112	2	12VDC	120	DPDT	240VAC/28VDC	20A	8	Power	Quick Connect	**13.95**	**11.95**	**10.29**
183880	GTS2C24D	KUHP11D5124	2	24VDC	472	DPDT	240VAC/28VDC	20A	8	Power	Quick Connect	**13.95**	**11.95**	**10.29**
183986	GLDPDT12A	K10P11A1512	4	12VAC	43	DPDT	120VAC/30VDC	15A	8	Power	Solder Term/Plug-in	**7.49**	**6.49**	**5.49**
183994	GLDPDT120A	K10P11A15120	4	120VAC	3900	DPDT	120VAC/30VDC	15A	8	Power	Solder Term/Plug-in	**7.49**	**6.49**	**5.49**
184006	GLDPDT12D	K10P11D1512	4	12VDC	160	DPDT	120VAC/30VDC	15A	8	Power	Solder Term/Plug-in	**7.49**	**6.49**	**5.49**
184014	GLDPDT24D	K10P11D1524	4	24VDC	650	DPDT	120VAC/30VDC	15A	8	Power	Solder Term/Plug-in	**7.49**	**6.49**	**5.49**
184022	GLPDPDT12D	K10P11D5512	4	12VDC	160	DPDT	120VAC/30VDC	15A	8	Power	PCB mount	**7.49**	**6.49**	**5.49**
184031	GLPDPDT24D	K10P11D5524	4	24VDC	650	DPDT	120VAC/30VDC	15A	8	Power	PCB mount	**7.49**	**6.49**	**5.49**
184049	GLSDPDT24A	K10P11AT524	4	24VAC	160	DPDT	120VAC/30VDC	15A	8	Flange	Solder Term/Quick Conn	**7.49**	**6.29**	**5.19**
184057	GLSDPDT120A	K10P11AT5120	4	120VAC	3900	DPDT	120VAC/30VDC	15A	8	Flange	Solder Term/Quick Conn	**7.49**	**6.29**	**5.19**
184065	GLSDPDT12D	K10P11DT512	4	12VDC	160	DPDT	120VAC/30VDC	15A	8	Flange	Solder Term/Quick Conn	**7.49**	**6.29**	**5.19**
184073	GLSDPDT24D	K10P11DT524	4	24VDC	650	DPDT	120VAC/30VDC	15A	8	Flange	Solder Term/Quick Conn	**7.49**	**6.29**	**5.19**
184081	GVSPDT120A	KRPA5AG120	6	120VAC	2250	SPDT	230VAC/28VDC	10A	5	Power	Plug-in	**13.95**	**11.95**	**10.29**
184090	GVDPDT24A	KRPA11AG24	6	24VAC	85	DPDT	230VAC/28VDC	10A	8	Octal	Plug-in	**14.95**	**12.95**	**10.95**
184102	GVDPDT120A	KRPA11AG120	6	120VAC	2250	DPDT	230VAC/28VDC	10A	8	Octal	Plug-in	**14.95**	**12.95**	**10.95**
184111	GVDPDT12D	KRPA11DG120	6	12VDC	120	DPDT	230VAC/28VDC	10A	8	Octal	Plug-in	**14.95**	**12.95**	**10.95**
184129	GVDPDT24D	KRPA11DG24	6	24VDC	472	DPDT	230VAC/28VDC	10A	8	Octal	Plug-in	**14.95**	**12.95**	**10.95**
184137	GVTPDT24A	KRPA14AG24	6	24VAC	85	3PDT	230VAC/28VDC	10A	11	Octal	Plug-in	**17.95**	**15.95**	**13.95**
184145	GVTPDT120A	KRPA14AG120	6	120VAC	2250	3PDT	230VAC/28VDC	10A	11	Octal	Plug-in	**17.95**	**15.95**	**13.95**
184153	GVTPDT12D	KRPA14DG12	6	12VDC	120	3PDT	230VAC/28VDC	10A	11	Octal	Plug-in	**17.95**	**15.95**	**13.95**
184161	GVTPDT24D	KRPA14DG24	6	24VDC	472	3PDT	230VAC/28VDC	10A	11	Octal	Plug-in	**17.95**	**15.95**	**13.95**
184170	GQDTDT24A	KUP11A1524	5	24VAC	85	DPDT	240VAC/28VDC	10A	8	Power	Plug-in/Quick Connect	**9.95**	**8.49**	**7.29**
184188	GQDPDT120A	KUP11A5120	5	120VAC	2250	DPDT	240VAC/28VDC	10A	8	Power	Plug-in/Quick Connect	**9.95**	**8.49**	**7.29**
184196	GQDPDT12D	KUP11D1512	5	12VDC	9110	DPDT	240VAC/28VDC	10A	8	Power	Plug-in/Quick Connect	**9.95**	**8.49**	**7.29**
184233	GQDPDT24D	KUP11D1524	5	24VDC	472	DPDT	240VAC/28VDC	10A	8	Power	Plug-in/Quick Connect	**9.95**	**8.49**	**7.29**
184217	GQSDPDT120A	KUP11AT120	5	120VAC	2250	DPDT	240VAC/28VDC	10A	8	Power	Quick Connect	**9.95**	**8.49**	**7.29**
184225	GQSDPDT12D	KUP11DT12	5	12VDC	9110	DPDT	240VAC/28VDC	10A	8	Power	Quick Connect	**9.95**	**8.49**	**7.29**
184209	GQSDPDT24D	KUP11DT24	5	24VDC	472	DPDT	240VAC/28VDC	10A	8	Power	Quick Connect	**9.95**	**8.49**	**7.29**
184241	GQTPDT24A	KUP14A1524	5	24VAC	85	3PDT	240VAC/28VDC	10A	10	Power	Plug-in/Quick Connect	**11.95**	**10.49**	**9.29**
184250	GQTPDT120A	KUP14A15120	5	120VAC	2250	3PDT	240VAC/28VDC	10A	10	Power	Plug-in/Quick Connect	**11.95**	**10.49**	**9.29**
184268	GQTPDT12D	KUP14D1512	5	12VDC	9110	3PDT	240VAC/28VDC	10A	10	Power	Plug-in/Quick Connect	**11.95**	**10.49**	**9.29**
184276	GQTPDT24D	KUP14D1524	5	24VDC	472	3PDT	240VAC/28VDC	10A	10	Power	Plug-in/Quick Connect	**11.95**	**10.49**	**9.29**
184284	GQSTPDT24A	KUP14A5524	5	24VAC	85	3PDT	240VAC/28VDC	10A	10	Power	Quick Connect	**11.95**	**10.49**	**9.29**
184292	GQSTPDT120A	KUP14A55120	5	120VAC	2250	3PDT	240VAC/28VDC	10A	10	Power	Quick Connect	**13.95**	**11.49**	**10.29**
184305	GQSTPDT12D	KUP14D5512	5	12VDC	9110	3PDT	240VAC/28VDC	10A	10	Power	Quick Connect	**11.95**	**10.49**	**9.29**
184313	GQSTPDT24D	KUP14D5524	5	24VDC	472	3PDT	240VAC/28VDC	10A	10	Power	Quick Connect	**11.95**	**10.49**	**9.29**
184321	GM4PDT24AF	KHAU17A1224	7	24VAC	160	4PDT	220VAC/24VDC	5A	12	Gen pwr	Plug-in/Solder Terminal	**6.29**	**5.49**	**4.95**
183038	GM4PDT120AF	KHAU17A12120	7	120VAC	3900	4PDT	220VAC/24VDC	5A	12	Gen pwr	Plug-in/Solder Terminal	**6.29**	**5.49**	**4.95**
184330	GM4PDT6DF	KHAU17D126	7	6VDC	40	4PDT	220VAC/24VDC	5A	12	Gen pwr	Plug-in/Solder Terminal	**6.29**	**5.49**	**4.95**
183011	GM4PDT12DF	KHAU17D1212	7	12VDC	160	4PDT	220VAC/24VDC	5A	12	Gen pwr	Plug-in/Solder Terminal	**6.29**	**5.49**	**4.95**
184372	GMS4PDT24AF	—	7	24VAC	160	4PDT	120VAC/28VDC	5A	12	Gen pwr	Quick Connect	**6.29**	**5.49**	**4.95**
184381	GMS4PDT120AF	—	7	120VAC	3900	4PDT	120VAC/28VDC	5A	12	Gen pwr	Quick Connect	**6.29**	**5.49**	**4.95**
184399	GMS4PDT6DF	—	7	6VDC	40	4PDT	120VAC/28VDC	5A	12	Gen pwr	Quick Connect	**6.29**	**5.49**	**4.95**
183020	GMS4PDT12DF	—	7	12VDC	160	4PDT	120VAC/28VDC	5A	12	Gen pwr	Quick Connect	**6.29**	**5.49**	**4.95**
184401	GMS4PDT24DF	—	7	24VDC	650	4PDT	120VAC/28VDC	5A	12	Gen pwr	Quick Connect	**6.29**	**5.49**	**4.95**
184356	GMP4PDT12DF	KHAE17D1212	8	12VDC	160	4PDT	220VAC/24VDC	5A	12	Gen pwr	PCB mount	**6.29**	**5.49**	**4.95**
184364	GMP4PDT24DF	KHAE17D1224	8	24VDC	650	4PDT	220VAC/24VDC	5A	12	Gen pwr	PCB mount	**6.29**	**5.49**	**4.95**
183898	GMH4PDT24AF	KHS17A1224	3	24VAC	160	4PDT	120VAC/28VDC	5A	12	Gen pwr	Plug-in	**39.95**	**37.95**	**33.95**
183901	GMH4PDT120AF	KHS17A12120	3	120VAC	3900	4PDT	120VAC/28VDC	5A	12	Gen pwr	Plug-in	**39.95**	**37.95**	**33.95**
183919	GMH4PDT12DF	KHS17D1212	3	12VDC	160	4PDT	120VAC/28VDC	5A	12	Gen pwr	Plug-in	**39.95**	**36.95**	**31.95**
183927	GMH4PDT24DF	KHS17D1224	3	24VDC	650	4PDT	120VAC/28VDC	5A	12	Gen pwr	Plug-in	**39.95**	**36.95**	**31.95**

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

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JAMECO ELECTRONICS

Time Delay On Relays and Flashers

C10 Series TDR (Time Delay On Relay)

- Solid state analog circuitry
- 10A resistive @ 240VAC contacts
- Delay time: 0.1 to 60 seconds
- Expected life at 25˚C: 10 million operations (mechanical); 100,000 operations min. at rated loads
- Size: 2.4"L x 1.7"W x 2.7"H
- Pins: 8
- White case with top adjustable knob
- Octal style plug-in model



181577

Part No.	Product No.	Contact Style	Input Voltage	Output Contact Rating	Time Delay (sec.)	1	10
181569	12DP.1-60C	DPDT	12VDC	250VAC/30VDC @ 10A	0.1 – 60	$39.95	$35.95
181577	120AP.1-60C	DPDT	120VAC	250VAC/30VDC @ 10A	0.1 - 60	39.95	35.95

DC10 Series TDR (Time Delay On Relay)

- Solid state CMOS digital circuitry
- White case with top adjustable knob
- Octal style plug-in model
- Expected life @ 25˚C: 10 million operations (mechanical); 100,000 operations min. at rated load
- Size: 2.4"L x 1.7"W x 2.7"H
- Pins: 8
- 10A resistive @ 240VAC contacts



181551

Part No.	Product No.	Contact Style	Input Voltage	Output Contact Rating	Time Delay (sec.)	1	10
181551	24DP1-60SDC	DPDT	24VDC	250VAC/30VDC @ 10A	1 – 60	$49.95	$44.95
181542	120AP.1-60SDC	DPDT	120VAC	250VAC/30VDC @ 10A	0.1 – 6	49.95	44.95

ST1 Series Delay On Make Timers

SALE

- Solid state circuitry – no moving parts
- 2-terminal series connection to load
- Voltage drop: typically 2.5Vrms @ 1A
- Temperature range: -40˚C to 65˚C (-40˚F to 149˚F)
- Size: 2.2"L x 2.2"W x 0.8"H
- Pins: 4
- Delay on make
- Output: 1A continuous load
- 0.25" quick-connect terminals



181489

Part No.	Product No.	Style	Input Voltage	Delay Time (sec.)	Agency Approval	1	10
181497	12D1-100SST1	SPST	12VDC	1 – 100	UL/CSA (pending)	$27.95	$25.95
181489	120A1-100SST1	SPST	120VAC	1 – 100	UL/CSA (pending)	27.95	25.95

DF Series Encapsulated Flashers

SALE

- Solid state analog flasher circuitry
- Input voltage: 24-120VAC/VDC
- Approximate 50% duty cycle
- Temperature range: -23˚C to 60˚C (-10˚F to 140˚F)
- Size: 1.6"L x 1.1"W x .9"H
- 2A load rating
- 0.25" quick disconnect terminals

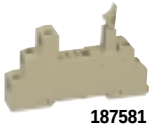


181526

Part No.	Product No.	FPM (Flash Per Minute)	Pins	Agency Approval	1	10
181534	24-120F30DF	30	2	UL/CSA	$19.95	$17.95
181526	24-120F60DF	60	2	UL/CSA	19.95	17.95

Relay Sockets

OMRON



187581



187602



187611



187637

Part No.	Product No.	Description	Compatible Relay	Dimensions (L" x W" x H")	1	25	50
187581	P2RF-05-E	Track mounted	G2R-1 series, pg 45	3.37 x 0.61 x 2.40	$3.59	$3.25	$2.89
187590	P2RF-08-E	Track mounted	G2R-1 series, pg 45	3.37 x 0.63 x 2.40	5.95	5.39	4.79
187602	PF083A-E	Track mounted	MK series, pg 42	2.05 x 1.61 x 0.83	4.65	4.19	3.69
187611	PTF08A-E	Track mounted	LY1 series, pg 42	3.09 x 1.12 x 1.18	4.95	4.55	3.95
187629	PYF08A-E	Front mounted	MY2 series, pg42	2.83 x 0.90 x 1.22	5.25	4.65	4.15
187637	PYF14A-E	Front mounted	MY4 series, pg42	2.83 x 1.16 x 1.22	7.49	6.75	5.95

Relay Socket w/ Coil Diode

VF4 Series



- For use w/ P/N 148582, pg 46
- 12 AWG: 2 black & 1 blue wire
- 18 AWG: 1 black & 1 red wire
- Diode coil suppression
- Contact voltage: 12V • 7.5" wire
- Contact current: 20A

Part No.	Description	1	10	50
170624	Socket relay	$1.95	$1.75	$1.25

P&B Type VF4 Plastic Relay Sockets



171424



171416



173788

SALE



173112

171424: accommodates 12-16 AWG wire
- Use P/N 173112 (below)

171416: accommodates 18-20 AWG wire
- Use P/N 173121 (below)

173788: PCB Mount

✳ **Prepackaged: please order in increments of 10, 100 or 1000**

Part No.	Product No.	Pins	1	10	50	100
171424	VCF41001	5	$.29	$.25	$.22	$.20
171416	VCF41002	5	.29	.21	.19	.17
173788	VCF41000	5	1.49	1.25	.99	.75
173112	26A1349A	— ..... ✳		.11	.10	.09
173121	26A1348A	— ..... ✳		.11	.10	.09

Relay Series 250 Sockets



141145



141153

- 250VAC
- Current: 20 amps
- Mounts with #8 screws
- Accepts #6 ring/lug terminals

141145: • Size: 2.0"L x 1.6"W x 0.8"H

141153: • Size: 2.0"L x 1.7"W x 1.2"H

Part No.	Terminals	Pins	1	10	50
141145	Screwdown	8 ...	$3.25	$2.75	$2.25
141153	Screwdown	11	3.49	2.95	2.69

Relay Series 388 Socket



- 250VAC • Current: 20 amps
- Mounts with #8 screws
- Accepts #6/#8 ring/lug terminals
- Size: 3.0"L x 1.4"W x 1.0"H

Part No.	Terminals	Pins	1	10	50
141161	Screwdown	11 ..	$4.95	$4.49	$3.95

Rayex General Purpose Relay Socket



LB4H Socket

- DIN rail snap socket for LB4H relays
- P&B cross reference: PYF14AA

Part No.	Product No.	Pins	1	10	50
175556	PYF14AA	14 ..	$3.95	$3.49	$2.95

P&B Relay Sockets



184479



184487

184479: • SMT screw terminal socket for KUEP/KUGP/KUMP/KUP

184487/184495: • SMT screw terminal for KAP/KRP/KRPA

184516: • Screw terminal socket for KUEP/KUGP/KUMP/KUP
- DIN rail • Snap mount

184508: • Screw terminal socket for KAP/KRP/KRPA
- DIN rail • Snap mount

Part No.	Product No.	Screw Term	1	10	50
184479	27E121	9	$8.49	$7.59	$6.79
184487	27E122	8	4.95	4.49	3.95
184495	27E123	11	7.49	6.75	5.95
184516	27E891	8	6.49	5.79	5.25
184508	27E893	9	9.95	8.95	7.95

G2R Power PCB Relays


Fig. 1


Fig. 2


Fig. 3


Fig. 4


Fig. 5

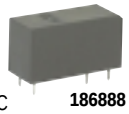
- Operating frequency: 18,000 operations/hour (mechanical); 1,800 operations/hour (electrical; under rated load)
- Power consumption: approx. 530mW (non-loading DC coil); approx. 0.9 mW (non-loading AC coil)
- Service life: 10,000,000 operations (min.) (AC); 20,000,000 operations (min.) (DC) • Contact voltage: 250VAC/30VDC
- Insulation resistance: 1,000MΩ (min. @ 500VDC) • Contact material: AgCdO
- Size: 1.40"L x 0.51"W x 1.00"H; *except G2R-1-T 1.77"L x 0.55"W x 1.16"H

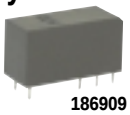
Part Number	Product Number	Coil Volt.	Coil Res. Ω	Contact Current	Fig.	Pin	Pricing 1	25	50
Sealed SPDT PCB Type									
186669	G2R-14 DC12	12	275	10A	1	5	$3.39	$2.95	$2.75
186677	G2R-14 DC24	24	1100	10A	1	5	3.39	2.95	2.75
Sealed DPDT PCB Type									
186802	G2R-24-AC24	24	260	5A	1	8	$6.49	$5.85	$5.25
186790	G2R-24-AC120	120	6500	5A	1	8	7.49	6.75	5.95
186811	G2R-24-DC12	12	275	5A	1	8	3.95	3.55	3.19
186781	G2R-24-DC24	24	1100	5A	1	8	3.95	3.55	3.19
Semi-Sealed SPST-NO PCB Type									
186685	G2R-1A-E-DC12	12	275	16A	2	6	$3.39	$2.95	$2.75
186693	G2R-1A-E-DC24	24	1100	16A	2	6	3.39	2.95	2.75
Semi-Sealed SPDT PCB Type									
186706	G2R-1-E-AC120	120	6500	16A	2	8	$6.95	$5.35	$4.49
186714	G2R-1-E-DC12	12	275	16A	2	8	3.49	2.69	2.25
186722	GR2-1-E-DC24	24	1100	16A	2	8	3.49	3.15	2.79
SPDT Plug-In Type									
186749	G2R-1-S-AC24	24	260	10A	3	5	$6.49	$5.85	$5.25
186731	G2R-1-S-AC120	120	6500	10A	3	5	7.49	6.75	5.95
184436	G2R-1-S-DC12	12	275	10A	3	5	4.79	4.29	3.89
184444	G2R-1-S-DC24	24	1100	10A	3	5	4.79	4.29	3.89
DPDT Plug-In Type									
186837	G2R-2-S-AC24	24	260	5A	5	8	$7.19	$6.49	$5.79
186829	G2R-2-S-AC120	120	6500	5A	5	8	7.95	7.15	6.49
186845	G2R-2-S-DC12	12	275	5A	5	8	5.95	5.35	4.79
186853	G2R-2-S-DC24	24	1100	5A	5	8	5.95	5.35	4.79
SPDT Quick-Connect Type									
186765*	G2R-1-T-AC24	24	6500	10A	4	5	$6.79	$6.09	$5.49
186757*	G2R-1-T-AC120	120	260	10A	4	5	7.49	5.75	4.75
186773*	G2R-1-T-DC24	24	1100	10A	4	5	4.89	4.39	3.95

G2RL Fully Sealed Power PCB Relays

- Contact voltage: 250VAC /24VDC
- Max operating frequency: 18,000 operations/hour (mechanical) 1,800 operations/hour @ rated load (electrical)
- Insulation resistance: 1,000MΩ min. @ 500VDC
- Life expectancy: 20,000,000 operations @ 18,000 operations/hour (mechanical) • Non-latching
- Size: 1.30"L x 0.50"W x 0.61"H • Power consumption: approx. 400mw

† Class F insulation


186888


186909

Part Number	Product Number	Contact Form	Coil Volt.	Coil Res. Ω	Contact Current	Pin	Pricing 1	25	50
General Purpose									
186888†	G2RL-14-CF DC12	SPDT	12	360	12A	5	$3.59	$3.25	$2.89
186896†	G2RL-14-CF DC24	SPDT	24	1440	12A	5	3.59	3.25	2.89
186968†	G2RL-24-CF DC12	SPDT	12	360	8A	8	4.29	3.85	3.49
186976†	G2RL-24-CF DC24	SPDT	24	1440	8A	8	4.29	3.85	3.49
186861	G2RL-14 DC12	SPDT	12	360	12A	5	3.39	3.05	2.69
186870	G2RL-14 DC24	SPDT	24	1440	12A	5	3.39	3.05	2.69
186941	G2RL-24 DC12	DPDT	12	360	8A	8	3.99	3.59	3.21
186950	G2RL-24 DC24	DPDT	24	1440	8A	8	3.95	3.55	3.19
High Capacity									
186909	G2RL-14-E DC12	SPDT	12	360	16A	8	$4.19	$3.79	$3.39
186917	G2RL-14-E DC24	SPDT	24	1440	16A	8	4.09	3.69	3.29
186925†	G2RL-14-E-CF DC12	SPDT	12	360	16A	8	4.35	3.95	3.59
186933†	G2RL-14-E-CF DC24	SPDT	24	1440	16A	8	4.35	3.95	3.59

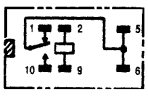
G5LE PCB Relays

- Subminiature "sugar cube" relay
- Contact ratings of 10A
- Contact voltage: 120VAC/30VDC
- Contact current: 10A/8A
- Withstands impulses of up to 4,500V
- UL class-B insulation certified
- Size: 0.89"L x 0.75"W x 0.65"H


187135

Part Number	Product Number	Contact Form	Coil Volt.	Coil Res. Ω	Pin	Pricing 1	25	50
Flux Seal								
187194	G5LE-1A DC12	SPST-NO	12	360	3	$1.79	$1.59	$1.49
187207	G5LE-1A DC24	SPST-NO	24	1440	3	1.69	1.49	1.39
187151	G5LE-1 DC5	SPDT	5	63	5	1.69	1.53	1.36
187135	G5LE-1 DC12	SPDT	12	360	5	1.79	1.61	1.45
187143	G5LE-1 DC24	SPDT	24	1440	5	1.69	1.49	1.25
Plastic Seal								
187215	G5LE-1A4 DC12	SPST-NO	12	360	3	$1.83	$1.65	$1.48
187223	G5LE-1A4 DC24	SPST-NO	24	1440	3	1.79	1.59	1.49
187186	G5LE-14 DC5	SPDT	5	63	3	1.87	1.67	1.49
187160	G5LE-14 DC12	SPDT	12	360	5	1.87	1.67	1.49
187178	G5LE-14 DC24	SPDT	24	1440	5	1.87	1.67	1.49

G5V Low Signal Relays


G5V1


G5V1


G5V2


G5V2

- High sensitivity: 150 mW nominal power consumption with 96mW pickup power
- Conforms to FCC part 68 voltage surge • Fully sealed construction

G5V-1 series: • Contact rating: 125VAC @ 0.5A/24VDC @ 1A
• Dimensions: 0.49"L x 0.30"W x 0.39"H

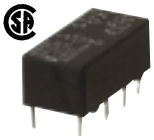
G5V-2 series: • Contact rating: 125VAC @ 0.5A/30VDC @ 1A
• Dimensions: 0.81"L x 0.45"W x 0.40"H

Part Number	Product Number	Pins	Coil Voltage	Coil Res. Ω	Contact Form	Pricing 1	25	50
G5V-1 Low Signal Relays								
187240	G5V-1-DC5	6	5	166.7	SPDT	$2.35	$2.10	$1.89
184461	G5V-1-DC12	6	12	960	SPDT	4.79	4.29	3.89
187231	G5V-1-DC24	6	24	3840	SPDT	2.35	2.10	1.89
G5V-2 Low Signal Relays								
187258	G5V-2-DC12	8	12	288	DPDT	$2.89	$2.59	$2.35
184452	G5V-2-DC24	8	24	1152	DPDT	2.95	2.65	2.39

G6 Low Signal Relays

G6A series:

- High sensitivity with pick-up power of approx. 200mW
- Low profile design allows use in 12.70mm PC board rack
- Surge withstand voltage meets FCC Part 68 regulation
- Can be mounted side by side due to low magnetic leakage
- Pins: 8 • Contact voltage: 125VAC/30VDC
- Contact form: DPDT • Dimensions: 0.80"L x 0.40"W x 0.33"H


187266

G6E series:

- High sensitivity with pick-up coil power of 98mW
- Bifurcated crossbar contact assures high reliability
- Minimal loss of latching capability due to highly efficient magnetic circuit
- Pins: 5 • Contact voltage: 125VAC/30VDC
- Contact form: SPDT • Dimensions: 0.63"L x 0.39"W x 0.31"H


187389

Part Number	Product Number	Coil Voltage	Coil Res. Ω	Contact Current	Pricing 1	25	50
G6A Low Signal Relays							
187282	G6A-234PSTUSDC5	5	125	3A	$4.69	$4.19	$3.75
187266	G6A-234PSTUSDC12	12	720	3A	4.69	4.19	3.75
187274	G6A-234PSTUSDC24	24	2880	3A	4.69	4.19	3.75
G6E Low Signal Relays							
187418	G6E134PSTUSDC5	5	125	3A	$4.02	$3.59	$3.19
187389	G6E134PSTUSDC12	12	720	3A	4.02	3.61	3.21
187397	G6E134PSTUSDC24	24	2880	3A	4.02	3.61	3.21
187400	G6E134PSTUSDC248	48	5760	3A	5.95	5.35	4.79

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

Call for OEM pricing – we carry major manufacturers.

OMRON G6 High-Frequency Relays

Design Based on Micro Strip Line Technology

- Isolation characteristics of 65dB or better at 900 MHz
- Effective insertion loss characteristics of 0.2 dB or better at 900 MHz
- Improved shock-resistance
- Contact voltage: 30VAC/30VDC
- Dimensions: 0.81"L x 0.46"W x 0.36"H
- Fully sealed construction
- Pins: 9
- Contact form: SPDT



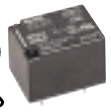
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Part Number	Product Number	Coil Volt (VDC)	Coil Res. Ω	Contact Current	Pricing 1	25	50
187434	G6Y-1DC4.5	4.5	–	–	$4.75	$4.25	$3.85
187442	G6Y-1DC5	5	125	.01A	4.29	3.85	3.49
187426	G6Y-1DC12	12	720	.01A	4.29	3.85	3.49

Aromat Ultra Miniature Power Relay

- Enclosed relay
- Pins: 5
- Contact form: SPDT
- Contact voltage: 125VAC/24VDC
- Terminal type: PCB solder
- Size: 0.85"L x 0.62"W x 0.63"H

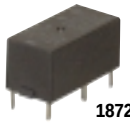
Potter & Brumfield cross reference: T72M5D121-12



Part Number	Product Number	Coil Volt (VDC)	Coil Resistance	Contact Current	Pricing 1	10	50	100
172937	JS1-12V	12VDC	400Ω	10A/5A	$1.19	$1.09	$.99	$.85

OMRON G6B Power PCB Relays

- Contact material: AgCdO
- Carry current: 5A
- Low power consumption of 200mW
- Contact rated load: 5A @ 250VAC, 5A @ 30VDC
- Resistive load (p.f.=1); 2A @ 250VAC, 2A @ 30VDC
- **G6B1114:** SPST-NO
- **G6B2114:** SPST-NO + SPST-NC
- **G6B2214:** DPST-NO



187291

Part Number	Product Number	Coil Volt (VDC)	Coil Curr (mA)	Coil Ohms	Pricing 1	25	50
187311	G6B1114PUSDC5	5	40	125	$4.25	$3.79	$3.39
187291	G6B1114PUSDC12	12	16.7	720	4.25	3.79	3.39
187303	G6B1114PUSDC24	24	8.3	2880	4.25	3.79	3.39
187346	G6B2114PUSDC5	5	60	83.3	4.95	4.49	3.95
167281	G6B2114PUSDC12	12	25	480	4.95	4.49	3.95
187338	G6B2114PUSDC24	24	12.5	1920	5.25	4.69	4.19
187371	G6B2214PUSDC5	5	60	83.3	4.95	4.49	3.95
187354	G6B2214PUSDC12	12	25	480	4.95	4.49	3.95
187362	G6B2214PUSDC24	24	12.5	1920	5.25	4.69	4.19

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DIP Relays

- Logic control levels
- Moisture resistant
- Compatible with IC sockets
- Long life with reliable operation
- Compact design/ construction
- Excellent for PCB applications



106462



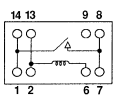
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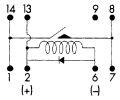
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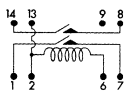
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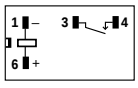
Schematic 1



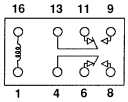
Schematic 2



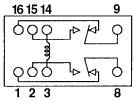
Schematic 3



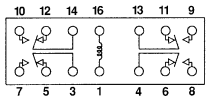
Schematic 4



Schematic 5



Schematic 6



Schematic 7

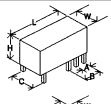


Fig. 1

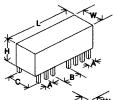


Fig. 2

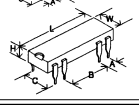


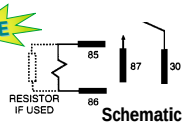
Fig. 3

Part Number	Product Number	Manufacturer	Contact Schem.	Contact Form	Coil Voltage	Coil (Ohms)	Contact Voltage	Contact Current	Pins	Jameco Socket	Fig.	Package L x W x H (in.)	Leads A x B x C (in.)	Pricing 1	10	50	100
106462	201A05	Excel Cell Elect.	1	SPST	5VDC	500	100VDC	0.5A	8	37161	3	.78 x .25 x .20	.10 x .40 x .30	$2.25	$1.95	$1.75	$1.49
138430	2D1A05	Excel Cell Elect.	2	SPST	5VDC	500	100VDC	0.5A	8	37161	3	.77 x .30 x .22	.10 x .40 x .30	2.29	1.95	1.75	1.55
167281	G6B2114P-US	OMRON	4	SPST	12VDC	480	250VAC/30VDC	5A	6	37372	1	.78 x .43 x .43	.32 x .42 x .33	4.95	4.49	3.95	3.59
106471	201A12	Excel Cell Elect.	1	SPST	12VDC	1000	100VDC	0.5A	8	37161	3	.78 x .25 x .20	.10 x .40 x .30	2.25	1.95	1.75	1.49
138448	2D1A1200	Excel Cell Elect.	2	SPST	12VDC	1000	100VDC	0.5A	8	37161	3	.77 x .30 x .22	.10 x .40 x .30	2.25	1.95	1.75	1.49
138456	202A05	Excel Cell Elect.	3	DPST	5VDC	140	100VDC	0.5A	8	37161	3	.77 x .30 x .28	.10 x .40 x .30	2.49	2.25	1.95	1.75
18593	HB25	Aromat	6	DPDT	5VDC	43.4	125VAC/30VDC	1A/2A	8	37372	1	.79 x .43 x .63	.10 x .20 x .30	4.95	4.49	3.95	3.25
129875	DS2EMDC5V	NEC (MR62-5)	5	DPDT	5VDC	62.5	125VAC/30VDC	.6A/1A	8	37372	1	.79 x .40 x .39	.20 x .40 x .30	3.95	3.49	2.95	2.25
173913	AZ831-2C-5DSE	American Zettler	5	DPDT	5VDC	125	125VAC/100VDC	.5A/1.25A	8	37401	1	.79 x .38 x .44	.18 x .28 x .29	1.95	1.75	1.49	1.19
139977	RSB5S	Shin Mei	5	DPDT	5VDC	125	120VAC/30VDC	1A/2A	8	37372	1	.79 x .39 x .37	.20 x .40 x .30	2.49	2.25	1.95	1.75
99338	LM12C00	Clare	5	DPDT	6VDC	71	125VAC/100VDC	2A	8	37372	1	.79 x .40 x .43	.20 x .40 x .30	2.25	1.95	1.75	1.49
18577	HB212	Aromat	6	DPDT	12VDC	250	125VAC/30VDC	.5A/1A	8	37372	1	.79 x .44 x .60	.10 x .20 x .30	4.95	4.49	3.95	3.49
99311	DS2Y-S-DC12V	Aromat (NAIS)	5	DPDT	12VDC	720	110VAC/30VDC	.3A/1A	8	37372	1	.79 x .40 x .43	.20 x .40 x .30	4.95	4.49	3.95	3.49
99901	LX200D00	Clare	5	DPDT	12VDC	720	125VAC/100VDC	2A	8	37372	1	.79 x .40 x .30	.20 x .40 x .30	5.95	5.35	4.79	4.29
99320	LM12E00	Clare	5	DPDT	24VDC	1110	125VAC/100VDC	2A	8	37372	1	.79 x .40 x .43	.20 x .40 x .30	2.49	2.25	1.95	1.49
136549	DS4E-M-DC5V	Aromat	7	4PDT	5VDC	62.5	125VAC/30VDC	.6A/2A	14	112299	2	1.40 x .40 x .36	.20 x .30 x .30	4.95	4.49	3.95	3.25
176313	DS4E-M-DC12V	Aromat	7	4PDT	12VDC	360	125VAC/30VDC	.6A/2A	14	112299	2	1.40 x .40 x .36	.20 x .30 x .30	5.95	5.35	4.79	4.29
176305	DS4E-M-DC24V	Aromat	7	4PDT	24VDC	1440	125VAC/30VDC	.6A/2A	14	112299	2	1.40 x .40 x .36	.20 x .30 x .30	4.95	4.49	3.99	3.59

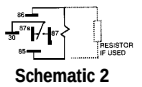
Potter & Brumfield Type Plastic Enclosed Construction Relays

SALE

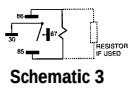
- Dielectric strength: 500VDC (between contact and coil)
- Operating temperature: -35°C to +85°C
- Normally open (NO), normally closed (NC)
- Terminal type: quick connect
- ***See page 44 for relay sockets***



Schematic 1



Schematic 2



Schematic 3



171467 (Fig. 1)



171432 (Fig. 2)



171441 (Fig. 3)



171459 (Fig. 4)

Part Number	Product Number	P&B Cross Reference	Figure	Contact Form	Coil Voltage	Coil (Ohms)	Contact Schematic	Contact Voltage	Contact Current	Pins	L x W x H (in.)	Pricing 1	10	50	100
VFM Type Relay															
171467	VFM11F11K01	VFM11F11K01	1	SPST-NO	12VDC	123	1	14VDC	20A	4	.78 x .60 x .87	$.75	$.66	$.59	$.54
VF4 Type Relays															
171459	VF481F11S01	VF481F11S01	4	SPST-NO	12VDC	78	3	14VDC	40A	4	1.1 x 1.1 x 1.0	$1.95	$1.75	$1.25	$.99
171441	961A-1A12D	VF411F11	3	SPST-NO	12VDC	90	3	14VDC	40A	4	1.1 x 1.1 x 1.0	2.49	2.25	1.95	1.49
171432	961A-1A12DM	VF481F11	2	SPST-NO	12VDC	90	3	14VDC	40A	4	1.1 x 1.1 x 1.0	2.75	2.49	2.25	1.75
171521	LD5F	VF445D11	2	SPDT	5VDC	14	2	12VDC	40A	5	1.1 x 1.1 x 1.0	1.95	1.75	1.49	1.19
148582	LD12F	VF485F11	2	SPDT	12VDC	78	2	12VDC	40A	5	1.1 x 1.1 x 1.0	2.49	2.25	1.95	1.75

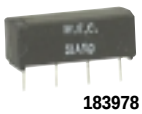
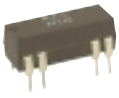
Reed Relays

- Coil voltage: 5VDC

***183935:** diode reversed †**183943/183960/183978:** diode

Part Number	Product Number	Magnecraft Cross	Coil Res. Ω	Contact Form	Contact Voltage	Contact Current	Pin	Jameco Socket	Pkg.	Pricing 1	10	50
183951	RP1A5	W107DIP1	500	SPST-NO	200	.5A	8	37161	DIP	**$3.49**	**$3.15**	**$2.79**
183960†	RP1A5D	W107DIP5	500	SPST-NO	200	.5A	8	37161	DIP	**3.95**	**3.59**	**3.19**
183978†	S1A5D	W117SIP6	500	SPST-NO	200	.5A	4	—	SIP	**3.95**	**3.59**	**3.19**
183935*	R1C5DR	W172DIP5	200	SPDT	100	.25A	8	37161	DIP	**8.95**	**7.95**	**6.95**
183943†	R2A5D	W171DIP25	200	DPST-NO	200	.25A	8	37161	DIP	**7.95**	**6.95**	**6.25**

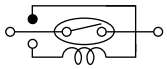
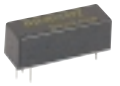
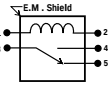

183935

183943

183978
183951

183960


Reed Type Relays

- Dielectric strength: 500VDC (between contact and coil)
- Operating temperature: -35°C to +85°C
- Normally open (NO), normally closed (NC)

SALE

111448


168356




Part Number	Product Number	Manufacturer	Coil Voltage	Coil (Ohms)	Contact Form	Contact Voltage	Contact Current	Pins	Terminal Type	L x W x H (in.)	Pricing 1	10	50	100
111448	RC108T	Han Kuk	12VDC	550	SPDT-NO	250VAC/150VDC	0.1A	4	PCB solder	1.0 x .37 x .38	**$1.55**	**$1.35**	**$1.09**	**$.89**
168356	R8864-2	ELEC-TROL	12VDC	1080	SPDT	28VDC (max.)	0.25A	5	PCB solder	1.1 x .35 x .32	**1.05**	**.92**	**.83**	**.75**

Small High Current PC Mount Relays

An inexpensive means of switching loads up to 30 amps. While these small, low-cost relays are designed primarily for the appliance industry and the heating, air conditioning and ventilation markets, they are also well suited for automotive load management and other applications.

- Meets UL class F insulation standard
- Mechanical life expectancy is 10 million operations
- Electrical life expectancy is 100,000 operations at rated loads
- Dielectric strength: 1,500Vrms (between contact and coil)
- Operating temperature:
  134949: -40°C to +85°C;
  104926/129349: -40°C to +125°C

***104926:** Open frame relay
****129349:** Immersion cleanable, plastic sealed case
†**144186**: For use with universal relay card (P/N 128910, pg 173)

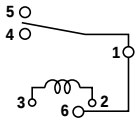


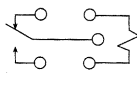
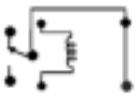
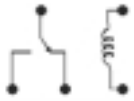
Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5


A

B

C

D

E

Part Number	Product Number	Potter & Brumfield Cross Reference	Fig.	Contact Form	Coil Voltage	Coil (Ohms)	Contact Voltage	Contact Current	Pins	L x W x H (in.)	Pricing 1	10	50	100
145752	T90S1D12-12	T90S1D12-12	1A	SPST	12VDC	155	240VAC	30A	5	1.2 x 1.0 x .77	**$2.95**	**$2.49**	**$2.25**	**$1.95**
134949	FKD130PSDC5V	T90S5D12-5	1A	SPDT	5VDC	27	240VAC/28VDC	30A	6	1.3 x 1.1 x .80	**2.25**	**1.95**	**1.75**	**1.49**
174449	LU-5	T81H5D215	3C	SPDT	5VDC	125	120VAC/24VDC	1A/2A	6	.60 x .40 x .45	**1.95**	**1.79**	**1.59**	**1.39**
104926*	733SPDT12VDC	T90N5D12-12	1E	SPDT	12VDC	155	240VAC/28VDC	20A/10A	6	1.2 x .90 x .63	**2.09**	**1.89**	**1.69**	**1.29**
129349**	832-IC-S	T90S5D12-12	1A	SPDT	12VDC	155	277VAC/28VDC	20A/10A	6	1.2 x 1.0 x .75	**2.49**	**2.25**	**1.95**	**1.49**
174393	LM1-12D	RKA5DG12	4D	SPDT	12VDC	270	250VAC/30VDC	10A	5	1.2 x .48 x 1.0	**1.85**	**1.67**	**1.49**	**1.25**
144186†	JZC-22F	VR15M121C	2C	SPDT	12VDC	337	120VAC/28VDC	15A	5	0.8 x .64 x .80	**2.95**	**2.49**	**2.25**	**1.95**
174431	LEG12F	T7CS5D12	2C	SPDT	12VDC	400	120VAC/24VDC	15A	5	.76 x .62 x .60	**1.49**	**1.29**	**1.19**	**1.09**
174457	LU-12	T81H5D2112	3C	SPDT	12VDC	720	120VAC/24VDC	1A/2A	6	.60 x .40 x .45	**1.39**	**1.19**	**.99**	**.79**
173690	L90-24	T90N5D12-24	1B	SPDT	24VDC	660	277VAC/30VDC	20A	6	1.1 x .90 x .55	**1.59**	**1.41**	**1.27**	**1.14**
173569	L90-24W	T90S5D1224	1A	SPDT	24VDC	660	277VAC/30VDC	20A	6	1.2 x 1.1 x .77	**1.79**	**1.60**	**1.44**	**1.25**
174406	LM1-24D	RKA5DG24	4D	SPDT	24VDC	1100	250VAC/30VDC	10A	5	1.2 x .48 x 1.0	**1.85**	**1.67**	**1.49**	**1.25**
174422	LEG-24	T725D16424	2C	SPDT	24VDC	1600	240VAC/24VDC	10A	5	.76 x .62 x .60	**1.29**	**1.09**	**.99**	**.89**
174377	LM2-12D	RKA5DZ12	5D	DPDT	12VDC	270	250VAC/30VDC	5A	8	1.2 x .48 x 1.0	**2.49**	**2.25**	**1.95**	**1.75**
174385	LM2-24D	RKA5DZ24	5D	DPDT	24VDC	1100	250VAC/30VDC	5A	8	1.2 x .48 x 1.0	**2.19**	**1.89**	**1.69**	**1.49**

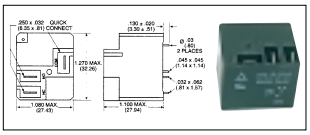
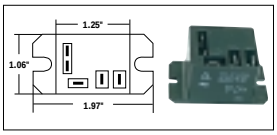
T9A Series Relays

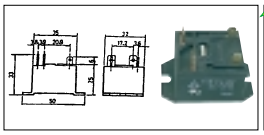
SALE

Low Cost PC Board or Panel Mount Only

- Mechanical life expectancy is 10 million operations

137365/137357: • Operating temp.: -55˚C to +85˚C
• Dielectric strength: 1500VAC (between open contacts)
137349: • Operating temperature: -40˚C to +70˚C
• Dielectric strength: 1200VAC (between open contacts)
169463: • Operating temperature: -55˚C to +55˚C
• Dielectric strength: 1200VAC (between open contacts) • UL/CSA approved


137365


137357

137349

169463

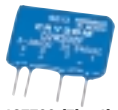
Part Number	Product Number	Potter & Brumfield Cross Reference	Contact Form	Coil Voltage	Coil (Ohms)	Contact Voltage	Contact Current	Pins	Terminal Type	L x W x H (in.)	Pricing 1	10	50	100
169463	PTRH-1A-12-S-T2	T9AS1D2212	SPST (NO)	12VDC	155	120/240VAC	30A	4	.25" disconnect (4)	1.3 x 1.0 x 1.1	**$1.25**	**$1.10**	**$.99**	**$.89**
137349	949-1A-12D	T9P1D52-12	SPST (NO)	12VDC	120	250VAC/28VDC	30A	4	.25" disconnect (2) .187" disconnect (2)	2.0 x 1.25 x 1.25	**3.49**	**2.95**	**2.49**	**2.25**
137365	953-IC-12DA	T9AS5D22-12	SPDT	12VDC	155	240VAC/28VDC	NO: 20A NO: 10A	5	PCB Solder (5) .25" disconnect (2)	1.25 x 1.0 x 1.25	**1.95**	**1.75**	**1.59**	**1.29**
137357	953-IC-12DM	T9AS5D52-12	SPDT	12VDC	155	240VAC/28VDC	NO: 20A NO: 10A	5	.1" disconnect (2) .25" disconnect (2)	2.0 x 1.6 x 1.8	**2.95**	**2.49**	**2.25**	**1.95**

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

DC/AC and DC/DC Solid State Relays

- Screw terminal with hardware (except P/N 127790)
- Photo isolation • Metal mounting base
- UL, CUL, CSA approved

† Zero crossing


127790 (Fig. 1)


153058 (Fig. 2)


138940 (Fig. 3)


162341 (Fig. 4)


176735 (Fig.5)


173518 (Fig.6)

Part Number	Product Number	Mfr.	Control Voltage	Type	Contact Style	Contact Voltage	Contact Current	Pins	Fig.	Terminal Type	Agency Approval	Size L" x W" x H"	Pricing 1	10	50	100
Solid State Relays DC/AC Type																
127790	D2W202F	Crydom	3-28VDC	DC/AC	SPST	240VAC	2A	4	1	Solder Lead	—	1.7 x 0.4 x 1.3	**$7.95**	**$7.19**	**$6.49**	**$6.15**
175214	KB20C02A	Kyoto	3-32VDC	DC/AC	SPST	280VAC	2A	4	1	Solder Lead	—	1.4 x 0.3 x 1.5	**7.95**	**6.95**	**6.25**	**5.59**
153058	KSD203AC2	COSMO	4-32VDC	DC/AC	SPST	240VAC	3A	4	2	Solder Lead	—	1.4 x 0.3 x 0.9	**9.95**	**8.95**	**7.95**	**7.25**
173518	RLYB4280	Phillips	3-32VDC	DC/AC	SPST	280VAC	4A	4	6	Solder Lead	—	1.7 x 0.4 x 1.5	**9.95**	**8.95**	**7.60**	**6.36**
176698	KB20C06A	Kyoto	3-32VDC	DC/AC	SPST	280VAC	6A	4	1	Solder Lead	—	1.4 x 0.3 x 0.9	**9.95**	**8.95**	**7.95**	**6.95**
105081	615-8500	Teledyne	3-32VDC	DC/AC	SPST	250VAC	10A	4	3	Screw Terminal	UL	2.3 x 1.7 x 1.1	**14.95**	**13.49**	**12.95**	**11.49**
139053	240D25	OPTO 22	3-32VDC	DC/AC	SPST	240VAC	25A	4	3	Screw Terminal	UL/CSA	2.3 x 1.7 x 1.0	**17.95**	**15.95**	**14.49**	**12.95**
138940	D2440	Crydom	3-32VDC	DC/AC	SPST	240VAC	40A	4	3	Screw Terminal	UL/CSA	2.3 x 1.7 x 1.0	**19.95**	**17.95**	**15.95**	**14.49**
162341†	ESR51024-010	Excel	3-32VDC	DC/AC	SPST	240VAC	10A	4	4	Screw Terminal	UL	2.3 x 1.7 x 1.1	**14.95**	**13.49**	**11.95**	**10.49**
162368†	ESR51024-025	Excel	3-32VDC	DC/AC	SPST	240VAC	25A	4	4	Screw Terminal	UL	2.3 x 1.7 x 1.1	**19.95**	**17.95**	**15.95**	**14.49**
163281	GA5-4D40	Gordos	3-32VDC	DC/AC	SPST	240VAC	30A	4	4	Screw Terminal	UL/CSA	2.3 x 1.8 x 0.9	**14.95**	**12.15**	**10.15**	**7.95**
162405†	ESR51024-040	Excel	3-32VDC	DC/AC	SPST	240VAC	40A	4	4	Screw Terminal	UL	2.3 x 1.7 x 1.1	**22.95**	**19.95**	**17.95**	**15.95**
176719	KD20C40AX	Kyoto	3-32VDC	DC/AC	SPST	280VAC	40A	4	5	Screw Terminal	—	2.3 x 1.7 x 0.9	**19.95**	**17.95**	**15.95**	**14.49**
176727	KD20C50AX	Kyoto	3-32VDC	DC/AC	SPST	280VAC	50A	4	5	Screw Terminal	—	2.3 x 1.7 x 0.9	**34.95**	**31.45**	**28.31**	**14.49**
176735	KD20C75AX	Kyoto	3-32VDC	DC/AC	SPST	280VAC	75A	4	5	Screw Terminal	—	2.3 x 1.7 x 0.9	**34.95**	**31.49**	**27.95**	**24.95**
Solid State Relay DC/DC Type																
172591	KF0602D	Kyoto	3-32VDC	DC/DC	SPST	60VDC	2A	4	1	Solder Lead	—	1.4 x 0.3 x 0.9	**$9.95**	**$8.95**	**$7.95**	**$6.95**
175222	KF0604D	Kyoto	3-32VDC	DC/DC	SPST	60VDC	4A	4	1	Solder Lead	—	1.5 x 0.3 x 0.9	**12.95**	**11.49**	**9.95**	**8.95**

OMRON Solid State Relays

- Compact dimensions to provide uniform mounting pitch • Pins: 4
- Built-in MOV effectively absorbs external surges • Type: DC/AC
- Operation indicator (red LED) enables monitoring operation
- Protective cover for greater safety

Fig. 1



Fig. 2

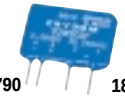


Part Number	Product Number	Control Volt (VDC)	Contact Volt (VAC)	Contact Curr (max)	Size (L" x W" x H")	Pricing 1	25	50
G3NA Solid State Relays								
186984	G3NA-205B-DC5-24	5-24	240	5A	2.28 x 1.69 x 1.06	**$16.95**	**$15.25**	**$13.75**
186992	G3NA-210B-DC5-24	5-24	240	10A	2.28 x 1.69 x 1.06	**16.95**	**15.25**	**13.75**
187004	G3NA-220B-DC5-24	5-24	240	20A	2.28 x 1.69 x 1.06	**19.95**	**17.95**	**15.95**
187012	G3NA-225B-DC5-24	5-24	240	25A	2.28 x 1.69 x 1.06	**22.95**	**20.95**	**18.95**
187021	G3NA-240B-DC5-24	5-24	240	40A	2.28 x 1.69 x 1.06	**36.95**	**33.49**	**29.95**
187039	G3NA-425B-DC5-24	5-24	480	25A	2.28 x 1.69 x 1.06	**49.95**	**44.95**	**40.49**
G3NE Solid State Relays								
187063	G3NE-205T-USDC5	5	100/240	5A	1.87 x 1.48 x 0.45	**$12.95**	**$11.49**	**$10.49**
187047	G3NE-205T-USDC12	12	100/240	5A	1.87 x 1.48 x 0.45	**12.95**	**11.49**	**10.49**
187055	G3NE-205T-USDC24	24	100/240	5A	1.87 x 1.48 x 0.45	**12.95**	**11.49**	**10.49**
187098	G3NE-210T-USDC5	5	100/240	10A	1.87 x 1.48 x 0.45	**15.95**	**14.35**	**12.95**
187071	G3NE-210T-USDC12	12	100/240	10A	1.87 x 1.48 x 0.45	**13.49**	**11.95**	**10.95**
187080	G3NE-210T-USDC24	24	100/240	10A	1.87 x 1.48 x 0.45	**15.95**	**14.35**	**12.95**
187127	G3NE-220T-USDC5	5	100/240	20A	1.87 x 1.48 x 0.45	**18.95**	**16.95**	**15.35**
187101	G3NE-220T-USDC12	12	100/240	20A	1.87 x 1.48 x 0.45	**18.95**	**16.95**	**15.35**
187119	G3NE-220T-USDC24	24	100/240	20A	1.87 x 1.48 x 0.45	**18.95**	**16.95**	**15.35**

CRYDOM Solid State Relays

- DC and AC type • SPST • Pins: 4

184410: MOSFET Type
84428: SCR Type SIP


127790


184428


184410

Part Number	Product Number	Control Voltage	Contact Voltage	Contact Current	Type	Size (L" x W" x H")	Pricing 1	10	50
127790	D2W202F	3.0 to 28VDC	240VDC	2A	solder lead	1.7 x 0.4 x 1.3	**$7.95**	**$7.19**	**$6.49**
184428	CX240D5	15 to 32VDC	280VAC	5A	solder lead	1.7 x 0.3 x 1.0	**8.95**	**8.15**	**7.79**
184410	D1D40	3.5 to 28VDC	100VDC	40A	screw term	1.9 x 1.8 x 1.1	**59.05**	**53.15**	**47.82**

KYOTO DC/DC Solid State Relays

KG Series

- 4 pins • Style: SPST • Type: DC/DC
- Must turn off voltage: 1.0VDC max.
- Input impedance: 1.5kΩ
- Minimum blocking voltage: 140VDC
- Frequency range: 47-70Hz
- Control voltage: 3-32VDC
- Output voltage: 120VDC
- Screw terminal

176655



Part Number	Product Number	Control Voltage	Contact Voltage @ Current	Size (L" x W" x H")	Pricing 1	10	50	100
176647	KG1005D	3-32VDC	120VDC @ 5A	2.3 x 1.7 x 0.9	**$19.95**	**$17.95**	**$15.95**	**$13.95**
176655	KG1010D	3-32VDC	120VDC @ 10A	2.3 x 1.7 x 0.9	**22.95**	**20.95**	**18.95**	**16.95**

SHARP Solid State Relays

DC to AC

164988: • Output: 125VAC @ 1.5A
- Input volt: 1.2V @ 20mA (If)
- On-state volt: 1.5Vrms
- Zero cross volt: 35V (If = 15mA)

164996: • Effective on-state curr.: 2A rms
- Input voltage: 1.2V @ 20mA
- Output: 265VAC @ 2.5A
- Operating frequency: 45-65Hz
- Isolation volt: 3000V rms


164996

Part No.	Product No.	1	10	50	100
164988	S101S02	**$3.95**	**$3.49**	**$2.95**	**$2.49**
164996	S202TA1	**3.95**	**3.49**	**2.95**	**2.49**

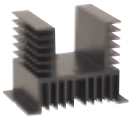
Solid State Relay Cover

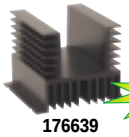
- For SS relay type KD/KG/KL relays
- Clear plastic
- Size: 2.4"L x 1.8"W x 1.0"H



Part No.	Product No.	1	10	50
176701	KSC1	**$.99**	**$.95**	**$.89**

Solid State Relay Heat Sinks


176621


176639


176612

- For SS type KD/KG/KL relays
- 0.24" side mounting blocks • Color: black

176621: Heatsink for 5/10/15A relays
- Size: 4.0"L x 2.8"W x 3.2"H • Weight: 0.8 lbs.

176639: Heatsink for 25A relays
- Size: 4.0"L x 4.0"W x 3.2"H • Weight: 1.1 lbs.

176612: Heatsink for 40A relays
- Size: 5.9"L x 4.0"W x 3.2"H • Weight: 1.6 lbs.

Part No.	Product No.	1	10	50	100
176621	KH114-70	**$6.89**	**$6.20**	**$5.59**	**$5.03**
176639	KH114-100	**8.95**	**7.95**	**6.95**	**6.25**
176612	KH114-150	**13.95**	**12.49**	**10.95**	**9.95**

Jameco offers 99.7% availability

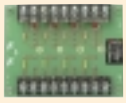
Digital I/O Modules

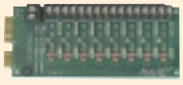

184541

- Industry standard package and pinout • Continuous duty • High immunity to false operation
- Color coded by function • 4,000Vrms optical isolation • Capacitance: 8pF typical (input/output)

Part No.	Prod. No.	Description	Input Voltage	Output Voltage	1	10	50
184541	ODC-5	DC output (red)	5VDC	3 to 60VDC @ 3A	$8.95	$7.95	$6.59
184559	ODC-24	DC output (red)	24VDC	3 to 60VDC @ 3A	9.49	8.54	7.69
184524	OAC-5	AC output (black)	5VDC	120VAC @ 3A	7.95	7.19	6.59
184532	OAC-24	AC output (black)	24VDC	120VAC @ 3A	10.69	9.69	8.59
184583	IDC-5	DC input (white)	3.3 to 32VDC	5VDC	7.95	7.19	6.59
184591	IDC-24	DC input (white)	3.3 to 32VDC	24VDC	9.95	8.95	8.19
184567	IAC-5	AC input (yellow)	120VAC/VDC	5VDC	7.89	7.19	6.59
184575	IAC-24	AC input (yellow)	120VAC/VDC	24VDC	9.69	8.95	7.95

GORDOS Digital I/O Module Mounting Boards


188234


188251

- Plug-compatible logic connections on 8, 16, 24 and 32 position boards
- Screw terminal barrier block for load connections
- Resident pull-up resistors • 5 amp field-replaceable fuses
- LEDs indicate logic status • Operate with 5, 15 or 24 volt logic supplies
- All even numbered logic connectors are logic ground
- Input and output modules accepted interchangeably
- Captive-screw retaining system for standard size modules and "Quad-Packs"


188277

Part No.	Product No.	Type	Positions	Size (L x W)	Wt. (lbs.)	1	10
188234	21F854	PB-4	4	4.5" x 3.5"	0.3	$34.95	$31.45
188242	98F820	PB4R	4	4.5" x 3.5"	0.3	35.95	32.35
188251	21F855	PB-8	8	8.0" x 3.5"	0.4	59.95	53.95
188269	21F856	PB-16	16	14.1" x 3.5"	0.9	94.95	85.49
188277	94F4618	PB16T	16	14.1" x 3.5"	0.9	105.95	95.49

Servoflo Pressure Sensor

0 – 5 psi



- Maximum load pressure: 10 psi
- Output voltage: 0 – 4.5V
- Operating voltage: 5V @ 10mA
- Pressure type: gauge pressure
- Pressure media: non-corrosive gas
- Accuracy: ±0.125 psi at 25˚C; ±0.250 psi at -10 to 65˚C
- High level output, on-chip signal conditioned, temperature compensated, and calibrated
- 1/8" diameter tubing is applicable
- Size: 0.6"L x 0.5"W x 0.2"H

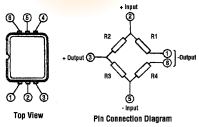
Part No.	Product No.	1	10	100
173657	XFPN-050-KPGT1	$12.95	$11.49	$9.95

Servoflo Pressure Sensor

0 – 7 psi

SALE





- Max. load pressure: 10.5 psi
- Input excitation: 1.5mA
- Span output: 60-140mV
- Bridge resistance: 5KΩ ±1KΩ
- Accuracy: ±5% full scale
- High output, accuracy and stability • Low noise
- 1/8" diameter tubing is applicable
- Size: 0.5"L x 0.5"W x 0.2"H

Part No.	Product No.	1	10	100
163731	FPM07PG	$9.95	$7.59	$5.59

Flex Sensor



- Nominal resistance: 10kΩ
- Maximum resistance is 30kΩ to 40kΩ, proportional to the sensor as it flexes or bends
- Applications: virtual reality data gloves, robotic, bio-metric, physics and engineering

Part No.	Description	1	10	100
150551	Flex sensor	$10.95	$9.95	$8.49

Latched Hall Effect Sensor

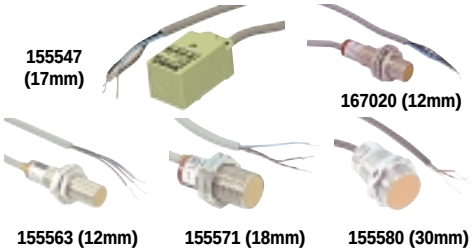


- Supply voltage: 2.4 to 20V; 20Vcc @ 4mA typical
- SP (south poles) = on; NP (north pole) = off
- Max. operating point: ≤130 (gauss)
- Max. release point: ≤-130 (gauss)

Part No.	Product No.	1	10	100	1000
174043	HI-300	$.75	$.59	$.45	$.29

12VDC Inductive Proximity Switch Sensors

Cylindrical and Square Styles



- Operating voltage range: 10-30VDC
- Nominal operating voltage: 12VDC
- Current consumption: 10mA max.
- Switching frequency: 1.0kHz (P/N 155580); 1.5kHz (P/Ns 155547/155563/155571/167020)
- Sensing target: inductive type – magnetic metal
- Sensing distance: ±10% (tin)
- Short circuit protected • LED status indicator
- Fast response • 6' long cable • Pre-tinned pigtail

Part Number	Product Number	Output Circuit	Effec. Dist. (Iron)	Std. Target (Iron) (mm)	Size (L" x W" x H")	Mounting Hole (in.)	Pricing 1	10	25
155547	S1805N1	NPN	0-4.0mm	17 x 17 x 1	1.4 x 1.4 x 0.7	0.112	$9.95	$8.95	$7.95
167020	TS1202N1	NPN	0-1.6mm	12 x 12 x 1	1.8"L x 0.46"Dia.	0.46	14.95	13.49	11.95
155563	TS1202P1	PNP	0-1.6mm	12 x 12 x 1	1.8"L x 0.46"Dia.	0.46	14.95	13.49	11.95
155571	TS1805N1	NPN	0-4mm	18 x 18 x 1	1.6"L x 0.70"Dia.	0.7	19.95	17.95	15.95
155580	T3010N2	NPN	0-8mm	30 x 30 x 1	2.0"L x 1.17"Dia.	1.17	22.95	20.95	18.95

Senix Distance Sensor Modules

Sends out a sound wave 20 times per second and calculates the distance based on the time differential between send and receive signals. The distance is represented by an output voltage from 0 to 10VDC (P / N 134105) or RS232 signal (P / N 151482).


134105

- Sensing range: 4" to 60" • Sensor diameter: 1.8"
- Board size: 2.8"L x 1.8"W x 0.9"H
- One-year warranty

Requires: 15 to 24VDC @ 40mA (not included), recommend P/N 114825, pg 68

134105: • Output voltage: 0-10VDC
- Each 1VDC increment = 5.6" (e.g.: 1VDC output = 9.6") • Weight: 0.2 lbs.

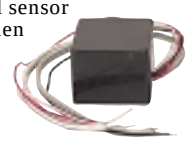
151482: • RS232 output • Weight: 1.0 lb.

Includes: Disk and computer cable

Part No.	Description	1	10
134105	Sensor – voltage output ..	$159.95	$143.95
151482	Sensor – RS232 output	179.95	161.95

24VDC Liquid Level Sensors

Combine the control box and sensor to activate a water valve. When sensor is triggered by either a tank in full or empty condition, it will trigger an output status change.


176241

176241: Control Box
- Input voltage: 24VDC @ 10A
- Output voltage: 24VDC @ 10A
- Size: 2.1"L x 2.1"W x 1.6"H

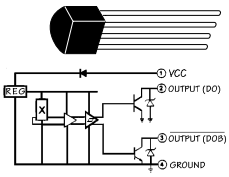
SALE

176250 (Full) / 176268 (Empty)
- Maximum contact rating: 10W
- Carry current: 1A
- Max. switching voltage: 100VDC
- Max. switching current: 0.5A
- Maximum contact resistance: 100mΩ
- Size: 2.6"L


176250

Part No.	Description	1	10	25
176241	Control box	$12.95	$11.49	$9.95
176250	Sensor full type	9.95	8.95	7.95
176268	Sensor empty type	9.95	8.95	7.95

Latched Hall Effect Sensor



- Complimentary open collector output
- Operating voltage: 20Vcc @ 25mA max.
- SP (south pole) = on; NP (north pole) = off
- Max. operating point: ≤90 gauss
- Max release point: ≤-90 gauss
- Output compatible with all digital logic families

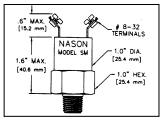
Part No.	Product No.	1	10	100	1000
169691	HI-400	$.89	$.81	$.72	$.65

NASON 4 PSI Pressure Switch



SALE

- Snap action switch
- Set point tolerance: ±1 PSI or 5%
- Max. operating pressure: 250 PSI
- Proof pressure: 750 PSI
- Current rating: 5 amps
- Media connection: 1/8" NPT male brass
- Electrical connection: 8-32 screw terminals



Part No.	Product No.	Circuit	1	10	100
167361	NASM2A4R832	SPST-NO	$9.95	$8.95	$7.95

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

Call for pricing on quantities over 1000 – we carry major manufacturers.

Solder Tail Low Profile Sockets


37372

- Material: beryllium copper or phosphor bronze
- Contact current: 1A
- Tin-plated contacts and tails
- Contact resistance: less than 5mΩ
- Dielectric withstanding voltage: 300Vrms
- Insulation resistance: greater than 1000MΩ
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide
- Sleeve material: brass
- Lead length: .125"
- Body height: .156"


single wipe | dual wipe

Low Profile – Single Wipe – Tin Plated

• Prepackaged: order in increments of 10, 100, or 1000

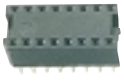
Part No.	Prod. No.	Pins	Width (in.)	10	100	1000
51570	8LP	8	0.3	$.07	$.045	$.035
37161	14LP	14	0.3	.07	.045	.035
37372	16LP	16	0.3	.10	.06	.04
38113	18LP	18	0.3	.07	.05	.03
38607	20LP	20	0.3	.12	.07	.05
39132	22LP	22	0.4	.05	.04	.025
39378	24SLP	24	0.3	.15	.10	.05
39335	24LP	24	0.6	.12	.07	.04
40301	28LP	28	0.6	.17	.11	.07
41110	40LP	40	0.6	.17	.12	.08

Low Profile – Dual Wipe – Tin Plated

• Prepackaged: order in increments of 10, 100 or 1000

Part No.	Prod. No.	Pins	Width (in.)	10	100	1000
112192	6LPD	6	0.3	$.08	$.05	$.04
112205	8LPD	8	0.3	.08	.05	.04
112213	14LPD	14	0.3	.08	.06	.04
112221	16LPD	16	0.3	.12	.07	.055
112230	18LPD	18	0.3	.14	.09	.06
112248	20LPD	20	0.3	.14	.09	.05
112281	24SLPD	24	0.3	.17	.11	.04
112264	24LPD	24	0.6	.12	.07	.03
112299	28SLPD	28	0.3	.19	.12	.07
112272	28LPD	28	0.6	.19	.12	.08
112301	32LPD	32	0.6	.15	.10	.07
112310	40LPD	40	0.6	.22	.17	.12
167396	48LPD	48	0.6	.15	.09	.06
112326	64LPD	64	0.9	.39	.39	.25

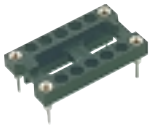
Solder Tail Standard Sockets


Closeout
37428

- Contact plating: gold – dual wipe
- Material: phosphor bronze
- Voltage rating: 250Vrms
- Contact current: 1A
- Temperature range: -65°C to +125°C
- Secure contact • Lead length: .125"
- Body height: . 281"

Part No.	Prod. No.	Pins	Width (in.)	1	10	100
37209	14SG	14	0.3	$.45	$.41	$.36
37428	16SG	16	0.3	.56	.51	.46
38640	20SG	20	0.3	.59	.49	.45

14-Pin Crystal Oscillator Socket



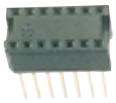
- Can be PCB mounted without the modifications that would be needed with DIP-IC sockets
- Low profile solder tail; machine tooled on 4 pins
- For full-can oscillators, pg 16
- Good for prototyping and PCB mounting

Part No.	Description	1	10	100	1000
133006	Oscillator socket	$.59	$.45	$.39	$.35

99.7% Availability

Over 6,000 Products

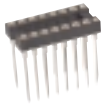
Level 2 Wire Wrap Sockets


37233

- Contact plating: gold (**WW**) or tin (**TWW**); dual wipe
- Material: beryllium copper or phosphor bronze
- Contact current: 1A
- Contact resistance: less than 5mΩ
- Dielectric withstanding voltage: 300Vrms
- Insulation resistance: greater than 1000MΩ
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide • Lead length: .438"
- Sleeve material: brass • Body height: .281"

Part No.	Prod. No.	Pins	Width (in.)	1	10	100	500
112660	8TWW	8	0.3	$.65	$.55	$.39	$.36
51641	8WW	8	0.3	.99	.79	.65	.59
37217	14TWW	14	0.3	.75	.65	.55	.51
37233	14WW	14	0.3	1.09	.89	.75	.69
37436	16TWW	16	0.3	.89	.75	.65	.59
37479	16WW	16	0.3	1.25	.99	.79	.74
87636	18TWW	18	0.3	.99	.79	.59	.55
75379	20TWW	20	0.3	1.09	.89	.75	.69
38674	20WW	20	0.3	1.49	1.25	1.09	.99
75416	24TWW	24	0.6	1.15	.81	.56	.49
39394	24WW	24	0.6	1.85	1.59	1.25	1.15
75424	28TWW	28	0.6	1.49	1.25	1.09	.99
40352	28WW	28	0.6	2.25	1.95	1.75	1.59
41179	40TWW	40	0.6	1.75	1.49	1.25	1.15
41187	40WW	40	0.6	2.75	2.25	1.95	1.79

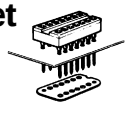
Level 3 Machine Tooled Wire Wrap Sockets


37410

- Contact plating: gold
- Material: beryllium copper or phosphor bronze
- Contact current: 3A
- Contact resistance: < 5mΩ
- Dielectric withstanding voltage: 300Vrms
- Insulation resistance: greater than 1000MΩ
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide • Sleeve material: brass
- Lead length: .515" • Body height: .125"
- Tin plated leads

Part No.	Prod. No.	Pins	Width(in.)	1	10	100	500
94473	8MSWW	8	0.3	$.69	$.55	$.45	$.41
62050	14MSWW	14	0.3	.99	.79	.65	.60
37410	16MSWW	16	0.3	1.09	.89	.75	.69
94481	18MSWW	18	0.3	1.25	.99	.79	.74
38631	20MSWW	20	0.3	1.35	1.09	.89	.83
185324	22MSWW	22	0.3	1.35	1.09	.89	.83
192831	22MSWW4	24	0.3	1.35	1.09	.89	.83
105371	24SMSWW	24	0.3	1.65	1.35	.99	.92
94490	24MSWW	24	0.6	1.49	1.15	.89	.83
40336	28MSWW	28	0.6	1.75	1.49	1.15	1.05
94502	40MSWW	40	0.6	2.25	1.95	1.49	1.39

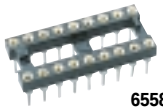
Wire Wrap Socket I.D. Markers


37356

- Quick identification of pin numbers
- Slips onto socket before wrapping • Plastic
- Can easily write location, part number or function

Part No.	Prod. No.	Pins	Width (in.)	1	10	100	500
51561	8ID	8	0.3	$.35	$.25	$.22	$.20
37145	14ID	14	0.3	.29	.22	.19	.17
37356	16ID	16	0.3	.29	.22	.19	.17
38105	18ID	18	0.3	.55	.45	.35	.32
38586	20ID	20	0.3	.55	.45	.35	.32
39327	24ID	24	0.6	.55	.45	.35	.32
40299	28ID	28	0.6	.65	.55	.45	.41
41101	40ID	40	0.6	.89	.75	.65	.60

Machine Tooled Low Profile Sockets


65584

- Contact plating: gold
- Material: beryllium copper or phosphor bronze
- Tin plated leads
- Contact current: 3A
- Contact resistance: less than 5mΩ
- Multiple contact elements
- Dielectric withstanding voltage: 300Vrms
- Insulation resistance: greater than 1000MΩ
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide • Sleeve material: brass
- Lead length: .188" • Body height: .125"

Part No.	Prod. No.	Pins	Width (in.)	1	10	100	1000
167003	6MLPT	6	0.3	$.29	$.22	$.17	$.14
51625	8MLP	8	0.3	.29	.22	.17	.14
37196	14MLP	14	0.3	.39	.32	.25	.22
37401	16MLP	16	0.3	.45	.35	.29	.25
65584	18MLP	18	0.3	.49	.39	.32	.25
38623	20MLP	20	0.3	.55	.45	.39	.35
184701	22SMLP	22	0.3	.59	.49	.45	.35
192209	22SMLP4	22	0.4	.59	.49	.45	.35
39386	24SMLP	24	0.3	.59	.49	.45	.35
39351	24MLP	24	0.6	.59	.49	.39	.35
114411	28SMLP	28	0.3	.75	.65	.55	.45
184680	28SMLP4	28	0.4	.75	.65	.55	.45
40328	28MLP	28	0.6	.75	.65	.55	.45
105380	32MLP	32	0.6	.89	.75	.55	.49
41136	40MLP	40	0.6	.89	.75	.65	.39
42059	48MLP	48	0.6	.79	.65	.45	.32

DIN Female Sockets


15851

- Metal body
- Panel mount with solder lugs

Part No.	Prod. No.	# of pins	1	10	100	500
15843	DINJ5	5	$.65	$.55	$.39	$.35
15851	DINJ6	6	.79	.65	.39	.35
15860	DINJ8	8	.85	.69	.55	.49

Right Angle DIN Female Sockets

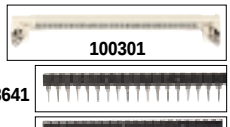

29399

- Set back: 0.5"
- PC mount contacts

140791/119474: Plastic/metal body
29399: Plastic body

Part No.	Product No.	# of pins	1	10	100	500
140791	MDR4S	4 (mini)	$.45	$.29	$.20	$.16
119474	MDR6S	6 (mini)	.69	.55	.39	.36
29399	RD5	5	.55	.45	.29	.25

SIMM and SIPP Sockets


100301 | 78641 | 104053

- Locking tabs
- Tinned contacts
- Memory module sockets
- Keyed mounting posts

✻**Prepackaged: please order in increments of 10, 100 or 1000**

SIMM Sockets

Part No.	Description	1	10	100	500
100301	Single x 30-pin, vert.	$.89	$.75	$.59	$.49
72531	Dual x 30-pin, vert. ✻	.99	.69	.55	
72426	Single x 72-pin vert.	.59	.39	.29	.20

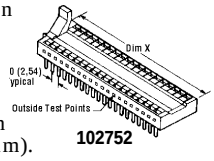
* Wire wrap

SIPP Sockets

Part No.	Description	1	10	100	500
192840	Single x 11-pin	$.49	$.39	$.25	$.21
78641	Single x 30-pin	.79	$.65	.49	.45
104053*	Single x 30-pin	1.95	1.75	1.49	1.35
175919	Single x 36-pin	.85	.65	.55	.49

ARIES Low Profile ZIF Sockets

Provides a low cost solution for ZIF test socket requirements. It has a height of only .319" (8.10mm), and even with the handle in open position measures just .554"(14.07mm).



102752

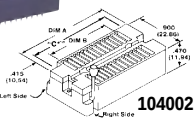
- Strong rigid cast metal cam provides uniform action over entire contact area

Part No.	Aries No.	Pins	Dim X	1	10	100
102744	28-526	28	1.64"	$5.49	$4.95	$4.25
102752	40-526	40	2.24"	6.49	5.95	5.25

ARIES Universal ZIF Sockets


103991

- Solder directly to PCB or plug directly into IC socket
- Screw mounting holes for reliable operation
- Accepts .300" to .600" IC centers x .1" spacing



104002

Part No.	Aries No.	Pins	1	10	100
103991	24-6554-10	24	$7.25	$6.49	$5.95
104002	28-6554-10	28	8.49	7.75	6.95
104011	32-6554-10	32	9.49	8.49	7.75
104029	40-6554-10	40	11.25	10.25	9.25

PLCC Sockets

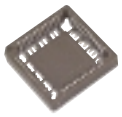
- Solder tail allows through-hole board patterns in .100" grid
- Accepts JEDEC type "A" plastic leaded chip (0.05" centers)
- Lead lgth.: .125" • Body ht.: .375"

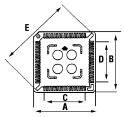

71968

Part No.	Prod. No.	Pins	1	10	50	100
71263	G1P428	28	$.45	$.35	$.27	$.19
71811	G1P432	32	.99	.79	.59	.39
71618	G1P444	44	.99	.79	.65	.55
72442	G1P452	52	.99	.79	.65	.49
71968	G1P468	68	1.15	.95	.75	.55
71976	G1P484	84	1.15	.95	.75	.49

PLCC Surface Mount Sockets

- Current: 1A
- Dielectric strength: 600VAC for 1 minute
- Insulator resistance: 5000MΩ minimum
- Temperature surface mount: -55˚C/ +170˚C


152688



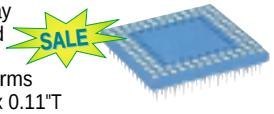
Dimensions in mm

Part #	A & B	C & D	E
152688	23.18	12.70	28.50
152696	30.80	20.32	40.00

Part No.	Prod. No.	No. Pins	1	10	50	100
152688	PLCC44D	44	$.99	$.79	$.49	$.39
152696	PLCC68D	68	.99	.79	.49	.32

88-Pin Solder Tail PGA Socket

- 13 x 13 pin grid array
- Contact plating: gold
- Rated current: 1A
- Rated voltage: 100Vrms
- Size: 1.4"L x 1.4"W x 0.11"T



Part No.	Description	1	10	50	100
172355	88-pin socket	$.31	$.27	$.25	$.23

Jameco offers same business day shipping on orders placed before 6:00 p.m. EST

.100" Low-Profile Male Shrouded Headers

Straight and Right Angle


68179

- Features: UL recognized, CSA certified; .025" square post mates with sockets on .100" x .100" grid
- Contact: phosphor bronze, gold plated
- Material: glass filled polyester, gray, UL94V-0
- Use with IDC socket connectors, pg 53

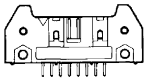
Part No.	Description	1	10	100	1000
67811	10-pin	$.35	$.29	$.22	$.15
68179	16-pin	.39	.35	.25	.17
68291	20-pin	.35	.29	.22	.15
68371	26-pin	.45	.35	.29	.17
68582	34-pin	.45	.35	.25	.17
181104	40-pin	.45	.35	.29	.19

.100" (2.5mm) Straight Male Headers

w/ Standard Latch



Double Row

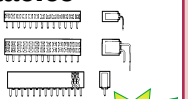


- Used with .156 housing (below)
- 0.1" contact center • Keying slot
- Mount vertical
- Use with IDC socket connectors, pg 53

Part No.	Description	1	10	100	500
117663	10-pin	$.45	$.35	$.29	$.17
71829	20-pin	.55	.45	.35	.19
71933	26-pin	.55	.45	.35	.22
72215	50-pin	.75	.59	.45	.32
167409	60-pin	.29	.22	.20	.18

.100" (2.5mm) Female Header Receptacles

Single row right angle-side entry (A)
Double row right angle-side entry (A)
Single row vertical mount-top entry (B)



- Gold plated contacts • 0.1" contact center

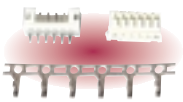
Right-Angle Mount (Side Entry) – A

Part No.	Contacts	Type	1	10	100	500
70746	8	single row	$.21	$.19	$.17	$.15
71159	20	double row	.89	.75	.59	.49

Vertical Mount (Top Entry) – B

Part No.	Contacts	Type	1	10	100	500
70754	8	single row	$.35	$.29	$.19	$.15
70720	16	double row	.65	.55	.45	.35
70826	20	double row	.69	.59	.49	.39
105056	30	double row	.69	.59	.39	.35
163862	34	double row	.65	.49	.29	.19
111704	40	double row (Tin)	1.15	.99	.85	.65

100 Piece .078" (1.9mm) Assorted Headers, Housings and Pin Kit



- Voltage rating: 250V AC/DC
- Current rating: 2A AC/DC
- Temp. range: -20˚C to +85˚C
- Pin wire gauge: 22-28 AWG
- Material (base): nylon 66
- Material (post): tin-plated brass
- Material (pin): phos. bronze
- Insulation resistance: 1000MΩ min.
- Applicable PC board thickness: 0.031" to 0.063" (0.8 to 1.6mm)
- Use 99442 crimper for pins, pg 108



✳ **Prepackaged: please order in increments of 100**

Part No.	Product No.	Description	1	10
172873	SVHCHK	Header/housing kit	$4.95	$4.55

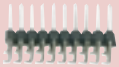
Part No.	Product No.	Description	10	100	1000
152493	FCH2	Fem. crimp pin kit ✳	.03	.02	

.100" Male Headers (Gold)

- Snap apart to fit your application
- Solder to PC boards for instant plug-in access via shorting blocks, pg 52 • Current rating: 1 amp
- Contact material: phosphor bronze
- Contact area: gold
- Temperature range: -55°C to +120°C
- Insulation material: glass filled polyester
- .025" square posts on a .100" x .100" matrix
- Use with crimp connector housing, pg 52

✳ **Prepackaged: please order in increments of 10, 100 or 1000**


109567

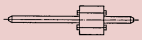

53575


103376


153728

.100" Straight Male Headers

Single Row

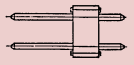



109575

Part No.	Product No.	Contacts	1	10	100	1000
108337	SMH02	2 ✳	$.10	$.06	$.04	
109575	SMH03	3 ✳	.10	.06	.04	
117559	SMH04	4 ✳	.10	.06	.04	
153699	SMH06	6 ✳	.10	.06	.04	
153701	SMH08	8 ✳	.12	.08	.05	
103392	SMH10	10 ✳	.12	.08	.05	
103376	SMH17	17 ✳	.17	.10	.07	
103368	SMH20	20 ✳	.17	.12	.07	
103350	SMH25	25 ✳	.19	.15	.07	
103341	SMH30	30	.29	.22	.17	.10
68339	SMH36	36	.35	.29	.22	.17
160881	SMH40	40	.39	.32	.25	.17

.100" Straight Male Headers

Double Row

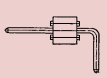



67820

Part No.	Product No.	Contacts	1	10	100	1000
115027	923804R	4 ✳	$.10	$.06	$.04	
115035	923806R	6 ✳	.15	.10	.05	
109516	923808R	8 ✳	.15	.10	.04	
67820	923810R	10 ✳	.17	.12	.08	
118455	923714R	14	.29	.22	.17	.10
109567	923816R	16	.29	.22	.17	.10
53479	923862R	20	.32	.25	.19	.12
53495	923863R	26	.35	.29	.22	.12
53516	923864R	34	.35	.29	.22	.17
53532	923865R	40	.39	.32	.25	.17
53559	923866R	50	.39	.32	.25	.15
68574	923860R	60	.45	.35	.25	.19
103405	923772R	72	.55	.45	.39	.25
117196	923780	80	.69	.59	.45	.29

.100" Right Angle Male Headers

Single Row

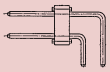


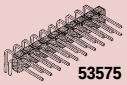

153728

Part No.	Product No.	Contacts	1	10	100	1000
153728	RMH08	8	$.29	$.20	$.15	$.10
182991	RMH08LP	8	.29	.20	.15	.10
103270	RMH36	36	.55	.45	.35	.22

.100" Right Angle Male Headers

Double Row



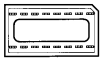
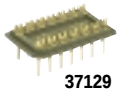

53575

Part No.	Product No.	Contacts	1	10	100	1000
53575	923872R	20	$.39	$.29	$.19	$.15
53583	923873R	26	.49	.39	.25	.19
53604	923875R	40	.55	.45	.32	.22
53612	923876R	50	.65	.55	.35	.25
103413	923672R	72	.75	.59	.49	.35
139563	923680R	80	.85	.69	.59	.39

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

.100" DIP Header Plugs

- Gold-plated leads
- Header plugs: keyed corner to indicate pin 1
- U-shaped pin termination for easy component attachment
- Lead length: .188" **(*134922 is tin-plated)**
- 0.1" spacing between leads



37129

Part No.	Prod. No.	Width	Pins	1	10	100
104336	8HP	0.3"	8	$.69	$.59	$.49
134922*	14THP	0.3"	14	.59	.49	.35
37129	14HP	0.3"	14	.89	.79	.69
37330	16HP	0.3"	16	.89	.79	.69
38578	20HP	0.3"	20	1.15	.99	.85

.100" IDC DIP Flat Cable Plugs

- Mates with standard 14, 16, 20, 24, 26, 28 & 40-pin DIP sockets with 0.1" spacing • Plastic
- Plastic with Gold-Plated contacts
- Uses 28 AWG flat ribbon cable (pg 90)
- Current rating: 1 amp


42673

Part No.	Prod. No.	Width	Contacts	1	10	100	500
42657	609-14	0.3"	14	$.39	$.29	$.21	$.19
42673	609-16	0.3"	16	.45	.35	.27	.25
104096	609-20	0.3"	20	.49	.39	.35	.25
42690	609-24	0.6"	24	.59	.49	.39	.32
175927	PCB26	0.2"	26	.29	.25	.19	.15
99670	609-28	0.6"	28	.69	.59	.49	.39
42711	609-40	0.6"	40	.79	.69	.55	.49

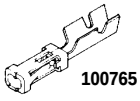
.100" Non-Polarized Connector Housings and Crimp Pins

- Mates with .025" square post on pattern of .100" centers (male headers, see pg 51)
- Current rating: 1A • Pin material: brass/tin plated
- Pin wire gauge: 26-22 Awg • Plastic
- Temperature rating: -55°C to +105°C
- **Use 159265 pin crimper & 100765 pins, pg 108**

✳ **Prepackaged: please order in increments of 10, 100 or 1000**

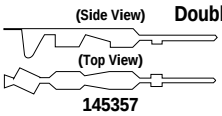
Single Row


103190

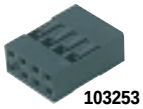

100765

Part No.	Product No.	Contacts	1	10	100	1000
100811	SCH2	2	✳	$.19	$.12	$.06
157382	SCH3	3	✳	.19	.12	.06
100802	SCH4	4	✳	.19	.12	.06
163686	SCH5	5	✳	.19	.12	.08
103211	SCH6	6	✳	.19	.12	.06
103202	SCH8	8	✳	.19	.12	.06
103190	SCH10	10	✳	.19	.12	.09
103181	SCH20	20	✳	.25	.15	.12
103157	SCH36	36	.45	.35	.25	.19
100765	FCH1	Female pin	✳	.10	.06	.04
145357	MCH1	Male pin	✳	.12	.08	.05

Double Row



145357


103253

Part No.	Product No.	Contacts	1	10	100	1000
103253	DCH8	8	$.32	$.25	$.19	$.10
157420	DCH10	10	.35	.29	.22	.12
157438	DCH14	14	.35	.29	.22	.15
103237	DCH16	16	.32	.25	.15	.08
103229	DCH20	20	.35	.29	.17	.12
157454	DCH34	34	✳	.10	.09	.08
157462	DCH40	40	.35	.29	.25	.19
157471	DCH50	50	.45	.39	.32	.27
100765	FCH1	Female pin	✳	.10	.06	.04
145357	MCH1	Male pin	✳	.12	.08	.05

.100" Low Profile Keyed Shrouded Headers and Connector

CD-ROM Headers and Connector


152741



181753


152725

- Voltage rating: 250V AC/DC
- Current rating: 3A AC/DC
- Insulation resistance: 1000MΩ min.
- Connector material: PBT, 30% glass
- Header material: PBT + 30% glass
- Withstanding voltage: 1000V AC/minute
- Pin material: tin-plated brass
- Recommended crimp tool P/N 99442, pg 108
- † P/N 152733 requires 4 pins (P/N 181673)


152733

✳ **Prepackaged: please order in increments of 10**

Part No.	Description	1	10	100	1000
152741	Strght headr (4-pin)	$.35	$.29	$.19	$.12
181753	Strght headr (5-pin)	.15	.12	.11	.10
152725	Right angle header	.45	.35	.29	.15
152733†	Single w/ latch	.29	.25	.19	.15
181673	Female pins	✳	.10	.06	.04

0.156" (3.9mm) Center Straight-Friction Lock Headers

- Ideal for AC and DC power distribution
- Voltage rating: 250VAC/VDC max.
- Current rating: 7 amps AC/DC
- Contact resistance: 20mΩ
- Temperature range: -25°C to +85°C
- Header material: pin - brass/tin-plated
- Base: nylon 66, UL94V-2



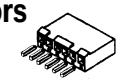
104811

✳ **Prepackaged: please order in increments of 10, 100 or 1000**

Part No.	Product No.	Pins	1	10	100	1000
104791	LMH4	4	✳	$.15	$.12	$.09
104803	LMH5	5	✳	.22	.15	.10
104811	LMH6	6	.29	.22	.17	.12
104838	LMH8	8	.32	.25	.19	.13
104846	LMH10	10	.35	.25	.19	.14

0.156" (3.9mm) Center Housing Connectors

- Common to many power supplies carried by Jameco. Some power supplies (pgs 67-76) may require multiple connectors
- Housing material: nylon 66, UL94V-2
- Use with crimp pins, 78318, right



104731

✳ **Prepackaged: please order in increments of 10, 100 or 1000**

Part No.	Product No.	Pins	1	10	100	1000
176743	LCH2	2	✳	$.10	$.07	$.04
104432	LCH3	3	✳	.12	.08	.04
104715	LCH4	4	✳	.15	.12	.05
104723	LCH5	5	✳	.15	.12	.05
104731	LCH6	6	✳	.19	.15	.08
104766	LCH10	10	✳	.19	.15	.08

MIL-MAX Header and Socket

SALE

- **184639:** Header; single row; solder tail; .025" square posts
- **184612:** Socket, single in-line dual row; machine tooled pins; solder tail


184639


184612

0.1" Male Header (Single Row)

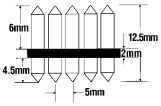
Part No.	Product No.	Pins	1	10	100
184639	SRPH20	20	$.99	$.80	$.69

0.1" Female Socket (Dual Row)

Part No.	Product No.	Pins	1	10	100
184612	20DILS	20	$.49	$.35	$.27

0.197" (5mm) Male Header

- Rated voltage: 300V
- Rated current: 10A
- Contact pins: 24
- Spacing: .197"
- 0.05" round posts • Color: black
- Snap apart to fit your application
- Contact pin: tin plated brass
- Use with P/N 164793 & 164806, pg 53



Part No.	Product No.	1	10	100
164814	TBH24	$1.65	$1.35	$1.09

.100" and 2mm Shorting Blocks

- Mates to .025" square posts on .100" centers
- Shorting socket jumper to address or code strip line plugs
- Mate with male headers, pg 51
- Pin material: phosphor bronze


22023 (open)


112432 (closed)

1 **22023:** open on top to allow for a test point while
2 **119263:** 2mm shorting block (for disk drives)
3 **19140:** closed – functionally they are the same

✳ **Prepackaged: please order in increments of 10, 100 or 1000**

Part No.	Description	1	10	100	1000
22023[1]	Top open, black	✳	$.10	$.06	$.04
119263[2]	Top open, black (2mm)	✳	.15	.10	.05
112424	Top open, blue	✳	.10	.06	.04
112416	Top open, red	✳	.10	.06	.04
19140[3]	Top closed, black	✳	.11	.07	.04
112441	Top closed, blue	✳	.10	.06	.04
112432	Top closed, red	✳	.12	.08	.04

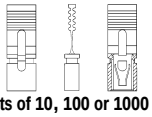
.100" Shorting Block w/ Handle

- Mates with .100" male headers, pg 51



Ratings: • Current: 3A
- Accessible test point in handle
- Contact resistance: 20mΩ max.

Material: • Plastic: PBT, glass filled
- Contact: phosphor bronze
- Color: black

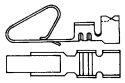


✳ **Prepackaged: please order in increments of 10, 100 or 1000**

Part No.	Description	1	10	100	1000
152670	Shorting block w/ handle	✳	$.17	$.13	$.08

0.156" (3.9mm) Center Crimp Pin

- Use with .156 housings (left)
- Use 159265 crimping tool, pg 108
- Material: brass/tin plated
- Pin wire gauge: 22-26 Awg



✳ **Prepackaged: please order in increments of 10, 100, 1000**

Part No.	Product No.	Description	1	10	100	1000
78318	AMP501T	Crimp pin	✳	$.10	$..06	$.04

0.156" Female Crimp Pins

- Pin wire gauge: 18-22 AWG
- Use 99442 crimping tool, pg 108
- Material: tin-plated brass

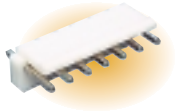


✳ **Prepackaged: please order in increments of 10**

Part No.	Product No.	Description	1	10	100	1000
154093	LRPIN	Crimp pins	✳	$.17	$.12	$.08

0.156" Male Header Grab Bag (100 Pcs.)

Outer Locking Strip



SALE

- Voltage rating: 250V AC/DC
- 0.045" post diameter
- Current rating: 7A AC/DC
- Insulation resistance: 1000MΩ min.
- Variety of pins 4, 5, 6, 7, 8, 10
- Header material: tin-plated brass (pin); nylon (base)

Part No.	Product No.	Description	1	10
172857	LRMHK	.156" male header	$7.49	$7.25

Jameco Stocks Over 6,000 Quality Products

0.197" (5mm) Vertical Terminal Blocks

Side Entry

- Rated voltage (UL): 250V
- Rated current: 15A
- Wire size: 22-14AWG
- PCB hole diameter: 0.05"
- Spacing: 0.197"
- Terminal block: copper zinc


189675

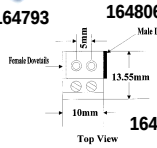
Part No.	Term.	Size (L"xW"xH")	1	10	100	1000
189675	2	.42 x .3 x .37	$.59	$.49	$.39	$.29
189667	3	.61 x .3 x .37	.69	.59	.45	.35

0.197" (5mm) Terminal Blocks

- Screw size: M2.6
- Rated current: 10A; 300VAC
- Insulation resistance: >500MΩ @ 500VDC
- PCB hole diameter: 1.8mm
- Wire range: 14-24 AWG
- Materials: cage clamp/ terminal/pin header – tin plated brass
- Use with P/N 164814, pg 52


164793


164806



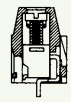
164793

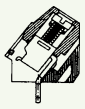
Part No.	Terminal	Block Lgth	1	10	100	1000
164793	2	.395"	$.65	$.55	$.35	$.25
164806	3	.615"	.89	.75	.55	.35

0.197" (5mm) Terminal Blocks

- Materials: housing: polyimide; solder: tin plated brass
- Lead spacing: 0.197" • Wire range: 12-24 AWG
- Contact rating: 300V @ 10A • PC mount
- Insulation resistance: 500MΩ or more @ 500V
- Modular housing: end-to-end stackability
- Terminals interlocking with same series

DT Series


Fig. 1


Fig. 2


99397


99389

DT128 Type (Side Entry)

Part No.	Fig.	Term.	Block Lgth	1	10	100	1000
99426	1	2	0.4"	$.65	$.55	$.45	$.35
99397	1	3	0.6"	.75	.65	.55	.45

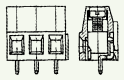
DT103 Type (45° Entry)

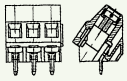
Part No.	Fig.	Term.	Block Lgth	1	10	100	1000
99389	2	2	0.4"	$.59	$.49	$.39	$.29

EK500 Series


160784


161066


Fig. 3


Fig. 4

EK500V Type (Side Entry)

Part No.	Fig.	Term.	Block Lgth	1	10	100	1000
160784	3	2	0.4"	$.65	$.55	$.45	$.32
160792	3	3	0.6"	.75	.65	.49	.39

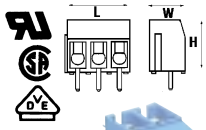
EK500A Type (45° Entry)

Part No.	Fig.	Term.	Block Lgth	1	10	100	1000
161066	4	2	0.4"	$.45	$.35	$.29	$.25
161058	4	3	0.6"	.55	.45	.35	.29

0.200" (5.08mm) Vertical Terminal Blocks

Side Entry

- Rated voltage (UL): 250V
- Rated current: 15A
- Wire size: 14-22 AWG
- PCB hole diameter: 0.05"
- Spacing: 0.200"
- Insulating material: polyimide
- Terminal block: copper zinc
- Wire guard: copper nickel



152346

Part No.	Term.	L x W x H (in.)	1	10	100	1000
152346	2	.42 x .35 x .49	$.55	$.45	$.35	$.25
152354	3	.62 x .35 x .49	.75	.65	.55	.39

entrelec PCB Terminal Blocks

- Terminal blocks for screw-clamp connection perpendicular to PCB
- Thickness PCB .094" • 1 pin per pole
- Screw clamp connection • Color: gray

.37" PCB Terminal Blocks

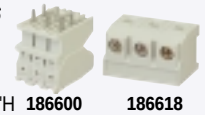
- Type: L 189 200
- 300V, 30A
- Spacing: .370"
- Pin: .031"L x .035"W x .197"H


186597

Part No.	Entrelec No.	# of Poles	1	10	100
186589	L18920201000	2	$1.19	$1.09	$.99
186597	L18920301000	3	1.79	1.59	1.45

.40" PCB Terminal Blocks

- Type: L 33 100
- 600V, 30A
- Spacing: .400"
- Pin: .031"L x .055"W x .142"H


186600 186618

Part No.	Entrelec No.	# of Poles	1	10	100
186600	L33102100	2	$1.95	$1.75	$1.59
186618	L33103100	3	2.95	2.65	2.39

.50" PCB Terminal Blocks

- Type: L 33 200 D
- 600V, 45A
- Spacing: .500"
- Pin: .047"L x .079"W x .142"H


186626 186634

Part No.	Entrelec No.	# of Poles	1	10	100
186626	L33202001	2	$3.59	$3.25	$2.89
186634	L33203001	3	5.39	4.85	4.35
186642	L33204001	4	7.19	6.49	5.79
186651	L33205001	5	8.95	7.95	6.95

entrelec .20" PCB Connectors


186415


186491


186520

CPFT2 Series

- Plug shape: tile • Screw-clamp connection
- Spacing: .200"
- Wires to parallel (P) or perpendicular (R) connection

Part No.	Entrelec No.	# of Poles (P/R)	1	10	100
186415	009430221	2/P	$1.19	$1.09	$.95
186423	009430322	3/P	1.79	1.59	1.45
186431	009430423	4/P	2.39	2.15	1.95
186440	009430807	8/P	4.79	4.29	3.89
186491	009435222	2/R	1.19	1.09	.99
186503	009435323	3/R	1.79	1.59	1.45
186520	009435424	4/R	2.39	2.15	1.89
186538	009435800	8/R	4.79	4.29	3.85

entrelec .20" PCB Connectors


186546 186571 186466 186482

CPET Series

- Plug shape: tile • Spacing: .200"
- Pin: .039"L x .039"W x .138"H
- Connectors available vertical (V) or horizontal (H)

Part No.	Entrelec No.	# of Poles (V/H)	1	10	100
186546	009410211	2/V	$.39	$.35	$.31
186554	009410312	3/V	.59	.53	.45
186562	009410413	4/V	.75	.69	.59
186571	009410827	8/V	1.49	1.35	1.19
186458	009420225	2/H	.39	.35	.31
186466	009420326	3/H	.59	.45	.39
186474	009420427	4/H	.75	.69	.59
186482	009420803	8/H	1.49	1.35	1.19

.100" & 2mm IDC Socket Connectors

Double Row

- Mates with 2 rows of .025"Sq. or Dia. posts on patterns of .100" centers (male headers, see pg 51)
- Current rating: 1A
- Industry standard IDC socket (plastic)
- Temperature rating: -55°C to +105°C
- Use P/N 73251, pg 109: insulation displacement connection crimper for these connectors
- * **100386:** 2mm pin spacing


32563

Polarized IDC Socket Connectors

Part No.	Product No.	Contacts	1	10	100	1000
32491	S10	10	$.32	$.25	$.19	$.12
153947	S14	14	.32	.25	.19	.13
119466	S16	16	.35	.29	.22	.15
32521	S20	20	.39	.32	.25	.17
32563	S26	26	.45	.35	.29	.17
32643	S34	34	.45	.35	.29	.17
32678	S40	40	.55	.45	.35	.19
100386*	IDC440	44(2mm)	.99	.85	.69	.59
32707	S50	50	.65	.55	.45	.29
32758	S60	60	.75	.59	.39	.35

Non-Polarized IDC Socket Connectors

Part No.	Product No.	Contacts	1	10	100	1000
138376	SN10	10	$.29	$.22	$.17	$.12
138325	SN20	20	.35	.29	.17	.12
138333	SN26	26	.39	.29	.19	.13
138341	SN34	34	.35	.25	.15	.12
138350	SN40	40	.45	.35	.29	.19
138368	SN50	50	.59	.49	.29	.22

Card-Edge Connectors

- Fits all PC boards
- .054" to .070" thick


40694

Solder Eyelet .140" Spacing Between Rows

- Contact centers: .156 • With mounting ears

Part No.	Position	Contacts	1	10	100
39116	22/44	Gold	$2.25	$1.95	$1.49

Solder Tail .200" Spacing Between Rows

- Contact centers: .100 • Without mounting ears

Part No.	Position	Contacts	1	10	100
40694	31/62	Tin (PC/AT)	$1.25	$.99	$.75
164013	32/64	Tin	.17	.15	.13
42091	49/98	Tin (AT)	.89	.59	.39

Jameco offers 24/7/365 ordering with 99.7% availability

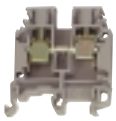


Log onto www.jameco.com

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

entrelec® DIN Rail-Mounted Terminal Blocks


185914


185922


185931

Universal mounting foot snaps onto standard DIN (P / N 185965, right) and DIN 2 rail profiles. Terminals are positively retained on rails, but can be removed without disturbing adjacent units.


185949

- Material: molded thermoplastic
- Compression clamp • Color: gray

185914: M4/6 Series
- Spacing 6mm (0.238")
- 22-12 AWG wire


185957

185922: M6/8 Series
- Spacing 8mm (0.315") • 22-8 AWG wire

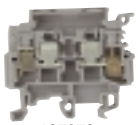
185931: M10/10 Series
- Spacing 10mm (0.394") • 20-6 AWG wire

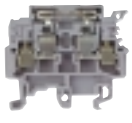
185949: End section for standard DIN Rail-mounted terminal blocks
- Compatible with above terminal blocks

185957: End stop terminal block w/ terminal board identification

Part No.	Entrelec No.	Type	1	10	100
185914	011511607	M4/6 ...	$1.09	$.99	$.89
185922	011511811	M6/8	1.49	1.15	.95
185931	011512017	M10/10	1.79	1.59	1.45
185949	011836816	FEM6	.49	.45	.39
185957	010300226	BAM	.89	.79	.69

entrelec® Fuse-Holder Terminal Blocks


185973


185981 Shown w/ fuse – not included


186001

M4/8SF – DIN Rail Mounted

185973/185981/185990: Fuse holder terminal blocks
- For use with 5mm x 20mm fuses, see page 84
- Blocks with LED indicators are labeled "+" on the outside of the lever • 8mm block
- Compression clamp • Color: gray

185973: Standard block
185981: Equipped block w/ blown fuse indicator
185990: Equipped block w/ 24V LED diode and blown fuse indicator
186001: End section for M4/8SF terminal blocks

Part No.	Entrelec No.	Type	1	10	100
185973	011565725	M4/8SF	$5.75	$5.25	$4.65
185981	011566121	M4/8SF ..	9.95	8.95	7.95
185990	011566323	M4/8SF ..	8.49	7.49	6.75
186001	011695115	FEM8S	.49	.45	.39

DIN Mounting Rail

DIN rail enables easy installation of components such as fuseable terminal blocks (right) and power supplies configured for DIN mounting.



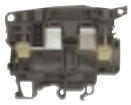
- Prepunched • Material: zinc bichromate plate steel
- ***DIN rails sold in 1 meter (39") length***

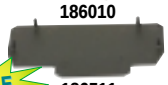
Part No.	Entrelec No.	Type	1	10	100
185965	017322005	PR30	$5.95	$5.35	$4.79

entrelec® Fuse-Holder Terminal Blocks

186010:
- Standard block
- For use with 0.25" x 1" and 0.25" x 1.25" fuses, pg 84
- Black body
- 13mm block

186511: End section for ML 10/13SF terminal blocks
- Color: black


186010


186511

SALE

Part No.	Entrelec No.	Type	1	10	100
186010	019909513	ML10/13SF	$7.25	$6.49	$5.75
186511	019963524	FEM13U	.75	.55	.45

entrelec® Assembled Jumper Bars


186036


186087


186159

- Pre-assembled jumper bar
- IP 20 without protection
- Fractionable jumper for standard block
- Screw is captive

BJM6 Series for M4/6 terminal blocks

Part No.	Entrelec No.	Poles	1	10	100
186028	016851625	2	$1.09	$.99	$.89
186036	016851726	3	1.69	1.49	1.35
186044	016851807	4	2.69	2.39	2.19
186052	016851900	5	2.69	2.39	2.19
186061	016897307	10	5.95	4.59	3.79

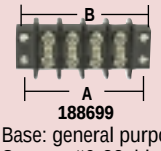
BJM8 Series for M6/8 terminal blocks

Part No.	Entrelec No.	Poles	1	10	100
186079	016852005	2	$1.59	$1.25	$1.05
186087	016852122	3	2.19	1.95	1.75
186095	016852223	4	2.79	2.49	2.25
186108	016852324	5	3.89	3.49	3.15
186116	016897400	10	6.29	4.75	3.95

BJM10 Series for M10/10 terminal blocks

Part No.	Entrelec No.	Poles	1	10	100
186124	017361121	2	$1.59	$1.45	$1.29
186132	017361222	3	2.49	2.25	1.95
186141	017361323	4	3.39	3.09	2.75
186159	017361424	5	4.39	3.95	3.49
186167	017361525	10	7.59	6.79	5.95

KULKA® 601 GP Series Double Row Terminal Blocks



188699

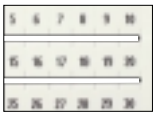

188672

- Base: general purpose phenolic; 150˚C
- Screws: #6-32, binder head, phillips-slot
- Terminals: brass plated
- 7/16" centers
- 1100Vrms; 20A ratings; for 14-16 AWG wires
- Open block design
- UL/CSA/CE approved

Part No.	Kulka No.	# Poles	Size (in.) A	Size (in.) B	Pricing 1	Pricing 10	Pricing 50
188699	601GP4	4	2.19	2.50	$1.69	$1.49	$1.29
188681	601GP6	6	3.06	3.38	2.39	2.19	1.95
188672	601GP8	8	3.94	4.25	3.19	2.95	2.69
188664	601GP10	10	4.81	5.13	3.49	3.29	2.95
188701	601GP12	12	5.69	6.00	5.49	4.95	3.95

entrelec® Marker Cards


186319 Inset


186327 Inset


186335 Inset

- Each card contains 10 strips of 10 markers (100 markers per card)
- Marker cards are white polyimide w/ black lettering

186319: RC610 Blank
- Marker for blocks from the 6mm spacing (L=5mm)
- For use with M4/8SF and M4/6 series, left

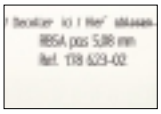
186327: RC610 Labeled 1-100
- Marker for blocks from the 6mm spacing (L=5mm)
- For use with M4/8SF and M4/6 series, left

186335: RC810 Blank
- Marker for blocks from the 8mm spacing (L=10mm)
- For use with M4/8SF, M6/8, M10/10 and ML10/13SF series, left

Part No.	Entrelec No.	Type	1	10	100
186319	023300001	RC610 ..	$3.79	$2.89	$2.39
186327	023303026	RC610	4.29	3.85	3.49
186335	023400002	RC810	5.95	5.35	4.79

entrelec® Sticker Marker Card

- For use with CPFT2 series, pg 53
- Card of 240 markers
- Each strip is pre-cut
- Material: polyester
- Blank
- Dimensions: 5mm


186407 Inset

Part No.	Entrelec No.	Type	1	10	100
186407	017862302	RB5A	$8.95	$7.95	$6.95

Part Number Legend

New Products

A new banner and / or a red part number indicate the nearly **400 New Items** featured in this catalog.

NEW

Part No.	Product No.
182991	RMH08LP

Refurbished Products

Refurbished items are indicated by a green number.

Part No.	Product No.
25101	MC146818

Closeout Specials

Closeout specials are shown by a blue number.

Part No.	Product No.
155643	DC603F1

Sale Products

SALE

A yellow highlighted priceline identifies sale items. Sale items can also be spotted by the distinctive starbursts throughout the catalog. Most of these items provide 20% to 60% saving opportunities on OEM quantity buys.

Part No.	Product No.	Pins	Description	1	10
44222	7400	14	Quad 2-input NAND gate	$.49	$.39
63538	7402	14	Quad 2-input NOR gate	.19	.14
44231	7404	14	Hex inverter (CD4069)	.39	.35

Jameco Offers 99.7% Availability

.100" IDC Plug Connectors

Double Row

- Current rating: 1A
- .100" x .100" grid
- Shrouded header w/o mounting ears
- Contact: gold-plated phosphor bronze • Plastic
- Use with IDC socket for connectors, pg 53


29217

Part No.	Product No.	Contacts	1	10	100
29188	P40	40	$1.75	$1.49	$.99
29217	P50	50	1.95	1.75	1.25

Power Connectors & Pins

Connector & Housing Specifications:

- Housing material: white nylon 6/6 UL94V-2
- Voltage rating: 250VAC (Mate-N-Lock 600VAC)
- Operating temperature: -55°C to +105°C

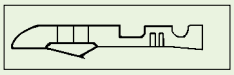
Crimp Pin Specifications:

- Material: tin plated brass • Current rating: 1.5 amps
- Wire size range: 24-18 AWG
- Use crimp tool P/N 99442 (pg 108)

Power Connectors and Pins for 3.5" Disk Drives and Power Supplies


114930


114999


114921

✳ **Prepackaged: please order in increments of 10, 100 or 1000**

Part No.	Description		10	100	1000
114930	4-pin F housing	✳	$.19	$.15	$.08
114921	F crimp pin for 114930	✳	.10	.06	.04

Part No.	Description	1	100	1000
114999	4-pin M rt. angle PCB mtg	.35	.29	.15

Power Connectors and Pins for 5.25" Disk Drives and Power Supplies

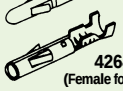
42075 & 42067 Connector Housings:

- Keyed mating connectors
- External key bar indicates pin 1


109145


117567


42729 (Male for 42075)


42649 (Female for 42067)


42075 (Male)


42067(Female)

✳ **Prepackaged: please order in increments of 10, 100 or 1000**

Part No.	Description		10	100	1000
109145	4-pin M vertical PCB mtg	✳	$.49	$.39	$.25
117567	4-pin M PCB mounting, horizontal edge mount	✳	.59	.49	.29
42075	4-pin M housing	✳	.25	.19	.12
42067	4-pin F housing	✳	.25	.19	.12
42729	M crimp pin for 42075	✳	.10	.06	.04
42649	F crimp pin for 42067	✳	.10	.06	.04

See page 108 & 109 for our selection of Crimping Tools





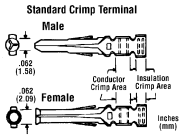
.062" Power Connector Kit

This assortment kit contains mating sets of housings and pins.

- Housing: nylon, UL94V-2
- Voltage: 250VAC • Current: 5A
- Temperature range: -40°C to +105°C

Includes: 3 ea. 2-pin plugs and 2-pin receptacles, 8 ea. male terminals and female terminals.





Part No.	Molex No.	Description	1	10	50
142113	1625-2	Kit	$6.49	$5.75	$4.95
142156	W-HT-2285	Ext. tool	12.95	11.95	10.95

.093" Power Connector Kits

These assortment kits contain mating sets of housings and pins.

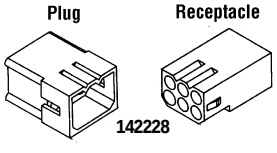
- Housing: nylon, UL94V-2 • Voltage: 250VAC
- Temperature range: -40°C to +105°C

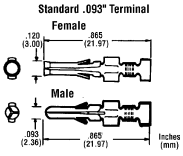
142181: • 3 ea. 2-pin plugs & receptacles, 8 ea. female & male terminals • Current: 12A

142201: • 2 ea. 4-pin plugs & receptacles, 10 ea. female & male terminals • Current: 9A

142228: • 2 ea. 6-pin plugs & receptacles, 14 ea. female & male terminals • Current: 9A

Includes: Male and female tin-plated standard brass .010" pins; 18-22 AWG crimp size wire





Part No.	Molex No.	Description	1	10	50
142181	1545	Kit	$4.95	$4.49	$3.95
142201	1490	Kit	4.95	4.49	3.95
142228	1261	Kit	5.25	4.75	3.95
142236	W-HT-2038	Ext. tool	12.95	11.95	10.95

USB-A & B Connectors and Pin


159716 USB-A


161023 USB-A

- Insulation resistance: 1000MΩ (min)
- Voltage current rating: 1A @ 30VAC
- Dielectric with standing voltage: 750VAC


174060 USB-B

159716/174060: USB Male Connector

- 3-part housing: tin plate over brass and glass fiber
- 4-pins (P/N 159724) required per USB connector

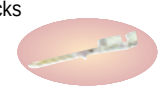

174051 USB-B

161023/174051: USB Female Connector

- PC mount right angle w/ board locks

159724: Male Crimp Pin

- Pin for P/N 159716 (4 required)
- Contact brass
- Use P/N 159265 for crimping tool, pg 108


159724

✳ **Prepackaged: please order in increments of 10, 100 or 1000**

Part No.	Description		1	10	100	1000
159716	USB-A connector (M)		$.55	$.45	$.29	$.25
161023	USB-A connector (F)		.69	.59	.49	.35
174060	USB-B connector (M)		.79	.65	.55	.45
174051	USB-B connector (F)		.65	.55	.39	.29
159724	Crimp pin for 159716	✳	.10	.06	.04	

Extraction Tools for Crimp Pins

- Quickly and easily extract 0.093" locking pins from interlocking connectors
- Heavy duty metal construction
- Precision design • Length: 5"
- See left for crimp pins, P/N 42729 & 42649


131887

Part No.	Product No.	Description	1	10
131887	HT319C	Male tool for 42729	$8.95	$7.49
131879	HT319B	Female tool for 42649	8.95	7.49

ATX Power Connectors for Motherboards and Power Supplies

- Voltage rating: 250V AC/DC • Current rating: 7A AC/DC • Temperature range: -25°C to 85°C
- Insulation resistance: 1000MΩ min. • Withstanding voltage: 1500V/min.

147379: ATX male 20-pin edge mount connector

- Material: nylon 66, UL-94VO
- Material of post: tin-plated brass • Diameter of post: .045"

147387: Housing connector

- Material: nylon 66, UL-94VO

147395: ATX power terminal pins

- Material: tin-plated brass

SALE


147379


147395


147387

✳ **Prepackaged: please order in increments of 10, 100 or 1000**

Part No.	Description	L	W	H	Dia	Use With	1	100	1000
147379	20-pin male connector	1.7"	0.4"	0.6"	—	—	$.49	$.39	$.25
147387	20-pin housing connector	1.7"	0.4"	0.8"	—	147395	.35	.25	.15
147395	Power terminal pin, female	.59"	—	—	.068"	147387	✳ .12	.08	.05

AT Power Connectors for Motherboards and Power Supplies

- Voltage rating: 250V AC/DC • Current rating: 7A AC/DC • Temperature range: -25°C to 85°C
- Insulation resistance: 1000MΩ minimum • Withstanding voltage: 1500V/min.

78300: AMP60G male 6-pin PCB mount connector

- Material of post: tin-plated brass • Diameter of post: .09"

78326: AMP50G female 6-pin housing connector

- Material: nylon

78318: AMP501T terminal pin

- Material: tin-plated brass

SALE


78300


78318


78326

✳ **Prepackaged: please order in increments of 10, 100 or 1000**

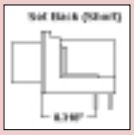
Part No.	Description	L	W	H	Dia	Use With	1	100	1000
78300	6-pin male connector	.93"	.37"	.57"	—	—	$.35	$.25	$.15
78326	6-pin housing connector	.94"	.25"	.74"	—	78300	.25	.19	.12
78318	Power terminal pin, female	.69"	—	—	.09"	78326	✳ .10	.06	.04

Call for pricing on quantities over 1000 – we carry major manufacturers.

D-Subminiature Connectors

- Metal shells are tin-plated for improved EMI/RFI shielding
- Insulation resistance: minimum 1000MΩ at 500VDC
- Dielectric withstanding voltage: 1000V (one minute)
- Current rating: 1A to 5A
- High temperature thermoplastic
- Insulation material: PBT, UL rated 94V-0

D-Subminiature Right Angle, PC Mount Connectors



0.318" Set Back

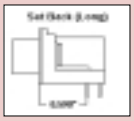
- Short style
- Lead length: .138"
- Lead spacing: .115"
- Shell: metal
- Current rating: 1A



15149

* High Density

Part No.	Product No.	Cont.	Gender	1	10	100	500
104942	DB9P318	9	M	$.49	$.35	$.28	$.20
104951	DB9S318	9	F	.55	.45	.35	.29
71124	DA15P318	15	M	.65	.55	.39	.32
77956	DA15S318	15	F	.65	.55	.35	.29
168743	HDDB15P318*	15	M	.55	.49	.45	.39
71466	HDDB15S318*	15	F	.59	.41	.25	.15
15149	DB25P318	25	M	.75	.59	.49	.35
15181	DB25S318	25	F	.79	.65	.55	.35
71706	DC37P318	37	M	.99	.79	.55	.49
78182	DC37S318	37	F	.99	.79	.55	.49



0.590" Set Back

- Long style
- Lead length: .178"
- Lead spacing: .104"
- Current rating: 1A



104977

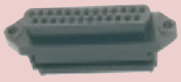
✳**Prepackaged: order in increments of 10, 100 or 1000**

† **189624:** without board tabs

Part No.	Product No.	Cont.	Gender	Shell	10	100	500
15763	DB9P590PL	9	M	plastic ... ✳	$.19	$.15	
104969	DB9P590	9	M	metal ..	.89	.75	.49
104977	DB9S590	9	F	metal ..	.89	.75	.65
104985	DA15P590	15	M	metal ..	.19	.15	.12
104993	DA15S590	15	F	metal ..	.79	.59	.39
189624†	DB25P590	25	M	metal ..	.75	.49	.29
105005	DB25P590	25	M	metal ..	.99	.79	.49
105013	DB25S590	25	F	metal	1.19	.99	.65

D-Subminiature IDC Ribbon Cable Connectors

- Current rating: 1 amp
- Temp range: -55°C to +120°C
- Insulation material: glass-filled polyester
- Contact material: phosphor bronze
- Terminates with standard D-type connectors



12431

† **109225/109217:** require flat cable w/ .0625" centers

Part No.	Product No.	Cont.	Gender	Shell	1	10	100
109225†	MDB9P	9	M	metal	$1.09	$.89	$.75
12503	CDB9P	9	M	plastic	1.35	1.15	.75
109217†	MDB9S	9	F	metal	1.09	.89	.75
12520	CDB9S	9	F	plastic	1.35	1.15	.75
117381	MDA15P	15	M	metal	1.25	.99	.59
12298	CDA15P	15	M	plastic	1.25	.99	.59
116011	MDA15S	15	F	metal	1.25	.99	.69
12319	CDA15S	15	F	plastic	1.35	1.09	.65
115983	MDB25P	25	M	metal	1.25	.99	.79
12335	CDB25P	25	M	plastic	1.39	1.19	.89
115975	MDB25S	25	F	metal	1.25	.99	.79
12431	CDB25S	25	F	plastic	1.39	1.19	.89
115991	MDC37P	37	M	metal	1.95	1.75	1.25
12466	CDC37P	37	M	plastic	2.49	2.25	1.75
116003	MDC37S	37	F	metal	1.95	1.75	1.35
12482	CDC37S	37	F	plastic	2.49	2.25	1.75

D-Subminiature Solder-Cup Connectors



15114 Front



15114 Back

- Compatible with 24 AWG communications and 22 AWG solid cable, pg 90 & 91 * High Density

Part No.	Contacts	Gender	Shell	1	10	100	1000
15747	9	M	metal ..	$.45	$.35	$.29	$.19
15771	9	F	metal	.49	.39	.35	.25
15077	15HD*	M	metal	.55	.45	.35	.22
164822	15HD*	F	metal	.59	.49	.39	.25
15034	15	M	metal	.45	.35	.29	.19
15051	15	F	metal	.49	.39	.32	.19
15114	25	M	metal	.49	.39	.32	.25
15157	25	F	metal	.55	.45	.35	.29
15472	37	M	metal	.79	.65	.55	.32
15499	37	F	metal	.95	.75	.59	.35
15675	50	M	metal ..	1.35	1.15	.99	.85
15691	50	F	metal ..	1.25	.99	.85	.75

D-Subminiature Straight, PC Mount Connectors

- Non-removable contacts
- 125 Vrms
- Current rating: 5 amps
- Operating temp.: -65°F to +250°F * High Density



15780



15122

Part No.	Product No.	Cont.	Gender	Shell	1	10	100
111691	DB9PPCB	9	M	metal	$.39	$.32	$.22
15780	DB9SPCB	9	F	metal ..	.39	.32	.22
174836	HDDB15PPCB*	15	M	metal ..	.19	.18	.16
176760	DA15PPCB	15	M	metal ..	.39	.32	.22
176751	DA15SPCB	15	F	metal ..	.32	.25	.17
15122	DB25PPCB	25	M	metal ..	.59	.45	.29
15165	DB25SPCB	25	F	metal ..	.59	.45	.25
180021	DC37SPCB	37	F	metal ..	.69	.55	.45

D-Subminiature Crimp-Type Connector Housings and Pins

- Connectors: metal shell; removable male/female crimp pins
- Male/female pins: gold plated contact; tinned crimp tail
- Insertion/extraction tool: red/white plastic body; exchangeable tips
- Use 99442, pg 108 to crimp P/Ns 43377, 43369



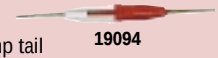
180890



38771



43369



19094

✳**Prepackaged: order in increments of 10, 100 or 1000**

Part No.	Description	1	10	100	1000
73189	DB9 male housing	$.39	$.32	$.25	$.15
73197	DB9 female housing	.39	.32	.25	.15
73200	DA15 male housing	.45	.39	.32	.19
73218	DA15 female housing	.55	.45	.35	.22
180881	HDDB15 male housing	.89	.69	.55	.45
180890	HDDB15 female housing	.59	.45	.35	.29
38789	DB25 male housing	.45	.35	.29	.17
38771	DB25 female housing	.45	.35	.25	.17
180048	DC37 male housing.....	.69	.59	.45	.29
180030	DC37 female housing	.55	.45	.35	.29
43377	Male crimp pins ..... ✳		.06	.05	.04
43369	Female crimp pins ..... ✳		.06	.05	.04
185421	Male crimp pins (for 180881) .. ✳		.05	.04	.035
185412	Female crimp pins (for 180890) ✳		.05	.04	.035
19094	Insertion/extraction tool for above pins (HT101)	2.95	2.49	1.95	1.49

Jameco offers 24/7/365 ordering with 99.7% availability



4-40 Mounting Screw Hardware for D-Subminiature Connectors

4-40 Screw Sets



102808



16547

102808: 4-40 screw (.30"L) and retainer set
16547: 4-40 x .187" jack screw (.31"L thread), washer, lock washer and nut set

✳**Prepackaged: order in increments of 10, 100 or 1000**

Part No.	Description	10	100	1000
102808	Screw/retainer set ..... ✳	$.25	$.19	$.15
16547	Screw/nut set ..... ✳	.25	.19	.13

4-40 x .187" Jack Screws and Hex Nuts



108986



102795



125014

Part No.	Description	1	10	100	1000
169931	.275"L jack screw ..... ✳	$.15	$.12	$.09	
172603	.315"L jack screw ..... ✳	.13	.09	.05	
102816	.435"L jack screw ..... ✳	.17	.13	.10	
108986	.515"L jack screw ..... ✳	.19	.14	.11	
175636	.187"L hex nut ..... ✳	.12	.09	.05	
102795	.240"L hex nut ..... ✳	.17	.12	.06	
125014	4-40 x 1.65"L plastic beige thumbscrew ..	$.39	$.29	$.22	$.13

D-Subminiature Connector Hoods



15085 Plastic



25620 Metallized

- Use with D-sub solder cup and housing style connectors

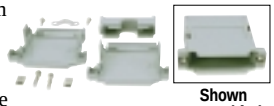
D Series: plastic hood with strain relief (gray)
MD Series: metal coated plastic hood with strain relief
MH Series: die-cast metal hood with strain relief

Includes: Hardware

Part No.	Product No.	Connector	1	10	100	1000
15721	DB9H	9-pin	$.32	$.25	$.19	$.15
25620	MDB9H	9-pin ...	.45	.35	.29	.25
147740	DB9MH	9-pin	1.15	.89	.65	.49
15018	DA15H	15-pin ...	.35	.29	.22	.17
25566	MDA15H	15-pin ...	.45	.35	.29	.25
15085	DB25H	25-pin ...	.39	.32	.25	.19
25603	MDB25H	25-pin ...	.45	.35	.29	.25
15106	DB25MH	25-pin	1.39	1.19	.99	.79
15456	DC37H	37-pin ...	.55	.45	.32	.25
25611	MDC37H	37-pin ...	.55	.45	.35	.29
15659	DD50H	50-pin ...	.99	.85	.69	.55

25-Pin Dual Plastic Hood

Designed for custom applications requiring two D-sub connectors. Applications include custom jumper boxes and interconnects.



Shown assembled

Part No.	Description	1	10	100	500
34091	25-pin, plastic dual	$.89	$.75	$.65	$.39

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SCSI-II and SCSI-III Half Pitch IDC Connectors



139361 139070

SALE

- Connectors are high-density D-sub connectors

Part No.	Description	1	10	50
139352	50-pin male SCSI-II	$1.29	$1.14	$.99
139361	50-pin female SCSI-II	1.99	1.79	1.62
139061	68-pin male SCSI-III	2.19	1.95	1.78
139070	68-pin female SCSI-III	3.35	2.99	2.70

Centronics Parallel Interface Connectors

Metal Body and Shell, Solder-Type Contacts



180072 180064 180056

SALE

- Solder eyelets accept 24 AWG wire, pg 90

Male cable plugs

- Complete with cable boot, shell and hardware

Female cable receptacles

- Can be used as panel mount
- Complete with spring latches and cable boot



42382

Part No.	Product No.	Description	1	10	50
180072	57-30140	14-contact M	$1.25	$.99	$.75
180064	56-30140	14-contact F	.99	.89	.79
180056	57-30240	24-contact F	.55	.49	.45
42382	57-30360	36-contact M	1.49	1.25	.75
42403	57-60360	36-contact F	.69	.65	.59
71714	5704-50	50-contact F	1.95	1.41	1.19

36-Pin Female Centronics Connector

Vertical PC Mounting

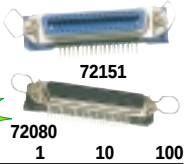


SALE

- Board mount
- Current rating: 1A
- Insulation resistance: 1000MΩ min. @ 500VDC
- Contact material: copper alloy • Spring latches
- Amphenol number: 57-20360-9

Part No.	Description	1	10	100
159708	36 contact female	$.39	$.35	$.32

PCB Right Angle Centronics Interface Connectors



72151 72080

SALE

- Solder-type contacts
- Space between rows: .164"
- Space between pins: 0.1"
- Metal body
- PC mount

Part No.	Description	1	10	100
72151	36-contact female	$1.49	$1.25	$.99
72080	50-contact female	.89	.79	.75

IDC Centronics Connector

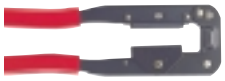


13848

- Contact material: gold plated phosphor bronze; plastic casing
- Current rating: 1 amp
- Use 73251 IDC crimping tool, below
- Temp. rating: -55°C to +105°C

Part No.	Prod. No.	Cont.	Type	1	10	100
13848	CEN36M	36	male	$1.75	$1.49	$1.09
13821	CEN36F	36	female	1.25	.99	.79

IDC Crimping Tool



- Crimp insulation displacement connectors
- Crimping distance: 27.5mm to 6mm (with attachment)
- Cushioned red handles
- Size: 9.2"L x 3.0"W
- Weight: 1.1 lbs.
- Use for IDC socket connectors, above

Part No.	Product No.	1	10	25
73251	HT214	$11.95	$10.95	$9.95

DIN and Mini DIN Plugs and Receptacles



177236 15886

- Solder barrels including strain relief
- See page 90 for cable

Part No.	Pins	Type	1	10	100
142279	4	Mini plug	$.89	$.79	$.59
142261	6	Mini plug	.99	.85	.69
177244	6	Mini receptacle	.99	.85	.69
111878	8	Mini plug	.99	.85	.65
177236	8	Mini receptacle	1.09	.89	.75
15878	5	DIN plug	.55	.45	.39
180873	5	DIN receptacle	.55	.45	.39
15886	6	DIN plug	.59	.49	.43
15894	8	DIN plug	.69	.59	.49
180865	8	DIN receptacle	.69	.59	.49

RCA Jacks



SALE

112475 169501 185842 159484 172339

- Standard RCA jacks for audio and video signals
- See page 150 for RCA cables

Part No.	W x D x H (ins.)	1	10	100	1000
112475	.42 x .57 x .48	$.39	$.29	$.25	$.15
169501	.40 x .85 x .50	.25	.19	.12	.09
185842	.44 x .59 x .47	.39	.29	.25	.15
159484	.84 x .38 Black	.49	.39	.32	.19
172339	.84 x .38 Red	.39	.32	.25	.19

IDC Bench Press and Accessories

Designed for low to medium volume mass termination of various IDC connectors on flat ribbon cable.



27182 27174

Part No.	Prod. No.	Description	Wt. (lbs.)	1	10
27174	M505	Bench press	7.0	$164.95	$149.95

M505 Accessories

27182	M507	Cable cutter	0.9	$64.95	$59.95
27203	M510	Base plate	0.5	29.95	26.95

Insulated Solderless Terminals

- Insulation thickness: .030"
- Funnel ramp entry • Temperature to 105°C
- Use with crimping tool P/N 72995, below
- **Prepackaged: please order in increments of 10, 100 or 1000**

Ring Solderless Terminals (Insulated)

Part No.	Color	Wire Gauge	Stud	10	100	1000
103683	Red	22-16	#6	$.09	$.06	$.04

Spade Solderless Terminals (Insulated)

Part No.	Color	Wire Gauge	Stud	10	100	1000
103587	Red	22-16	#6	$.10	$.06	$.04
103595	Blue	16-14	#8	.10	.06	.035

Disconnect Solderless Terminals (Insulated)

† 109111 includes hood

Part No.	Descrip.	Color	Gauge	Blade	10	100	1000
106921	Female	Red	22-16	.187"	$.12	$.07	$.04
103667	Female	Red	22-16	.25"	.12	.07	.04
109111†	Female	Red	22-16	.25"	.14	.09	.045

Jameco stocks over 6000 products

171-Pc. Solderless Terminal Kit

- Clear, hinged plastic box
- Use crimping tool P/N 72995, below

170 Terminals and Connectors!



Qty.	Description	Wire Gauge	Blade Size	Qty.	Description	Wire Gauge	Blade Size
10	Male discon.	22-16	1/4"	10	Ring term.	16-14	#10
10	Male discon.	16-14	1/4"	5	Ring term.	12-10	#10
10	Fem. discon.	22-16	1/4"	5	Ring term.	12-10	#14
10	Fem. discon.	16-14	1/4"	10	Spade term.	22-16	#6
10	Ring term.	22-16	#6	10	Spade term.	22-16	#8
10	Ring term.	22-16	#8	10	Spade term.	16-14	#10
10	Ring term.	22-16	#10	10	Butt connec.	22-16	–
15	Ring term.	16-14	#6	10	Butt connec.	16-14	–
10	Ring term.	16-14	#8	5	Butt connec.	12-10	–

Part No.	Description	1	10	25
10989	Terminal kit	$10.49	$8.95	$6.95

Terminal Wire Crimping Tool



- Crimps solderless terminals: 22-18 AWG red, 16-14 AWG blue and 12-10 AWG yellow
- Size: 9.0"L x 2.0"W • Weight: 0.8 lbs.

Part No.	Product No.	1	10	25
72995	HT303	$15.95	$14.49	$12.95

Non-Insulated Terminal D-Sub Crimping Tool

14-26 AWG



- Heavy-duty metal crimping tool w/ cutter
- For computer pins and sockets, D-sub 26-28 AWG wire
- For butt-insulated connectors, 22-26 AWG wire
- For telephone spade lugs, 22-26 AWG wire
- For non-insulated connectors, 14-18 AWG and 20-22 AWG wire • Size: 7.3"L x 1.5"W

Part No.	Product No.	1	10	25	100
99442	HT202A	$8.49	$7.49	$6.95	$6.29

Same business day shipping on all orders placed by 6:00 pm EST

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

BNC Coax Connectors

BNC connectors are miniature, lightweight units designed to operate up to 11GHz and typically yield low reflection up to 4 GHz

Part No.	Fig.	Description	1	10	100	500
71458	1	BNC male terminator (50Ω)	$1.35	$1.09	$.75	$.59
71790	1	BNC male terminator (75Ω)	1.35	1.09	.89	.59
102306	1	BNC male terminator (93Ω)	.49	.45	.40	.36
135618	2	BNC male with pin and ferrule (RG6)	.69	.55	.29	.25
71482	2	BNC male with pin and ferrule (RG58)	1.19	.99	.79	.55
71271	2	BNC male with pin and ferrule (RG59/62)	1.09	.89	.69	.49
112109	2	BNC male with pin and ferrule (RG174)	1.19	.99	.79	.55
119394	3	BNC male clamp-on (RG59/62)	1.35	1.09	.75	.59
108994	4	BNC male twist-on (RG58)	.85	.65	.42	.35
71781	4	BNC male twist-on (RG59/62)	1.09	.89	.75	.55
71589	5	BNC female panel mount (UG-1094A)	1.19	.99	.85	.65
71909	6	BNC female/female coupler (UG-914)	.89	.69	.59	.45
127343	7	BNC male/male coupler (UG-491B/U)	1.49	1.25	.89	.79
111561	8	BNC female isolated bulkhead	1.95	1.75	1.39	.99
148224	9	BNC female bulkhead feed-thru.	1.49	1.25	.99	.79
148232	9	BNC female isolated bulkhead feed-thru.	1.75	1.49	1.25	.99
127351	10	BNC M-F right angle (DG-306B/O)	2.25	1.95	1.49	1.25
160928	11	BNC female, crimp type (RG58)	1.09	.89	.69	.55
161921	11	BNC female, crimp type (RG174)	1.25	.99	.79	.65
161269	12	BNC female, right angle; panel mount bulkhead	1.49	1.25	1.09	.99
174289	13	BNC female chassis mount	1.25	.99	.79	.65
174297	14	BNC female twist-on bulkhead	1.95	1.58	1.27	.99
174271	15	BNC female right-angle chassis mount	1.25	.99	.79	.69
174318	16	Male to male/male T adapter	3.95	3.49	2.49	1.95
174262	17	BNC male to F connector male	.99	.79	.69	.52
174254	18	BNC male to F connector female	1.49	1.25	1.09	.89

BNC Coax T-Adapters

SALE



Application: general purpose coax T-adapter; ThinNet/Ethernet LAN adapter
• Color: silver

Part No.	Description	1	10	100	500
118594	Male to female/female T-adapter	$1.95	$1.58	$1.07	$.72
72629	Female to female/female T-adapter	1.95	1.75	1.25	.99
100589	Male to female/female T-adapter (90°)	2.95	2.49	2.25	1.95
100597	Male to female/female T-adapter (180°)	4.75	4.25	3.49	2.75
117461	Male to female/female F-adapter (90°)	3.49	2.95	2.25	1.95

BNC PCB Mounting Connectors

- **146528:** Ideal for applications where multiple insertions will require a connector which can endure the stress of high torque
- **146510/161656:** Maintains matching impedance at 50 and 75Ω. Ideal for LAN cards and precision video



Part No.	Description	Length (L)	1	10	100	500
146528	BNC straight metal	.719"	$1.95	$1.75	$1.49	$1.25
146510	BNC right-angle plastic insulation	1.37"	1.95	1.75	1.49	1.25
161656	BNC right-angle metal	.861"	2.25	1.95	1.49	1.25

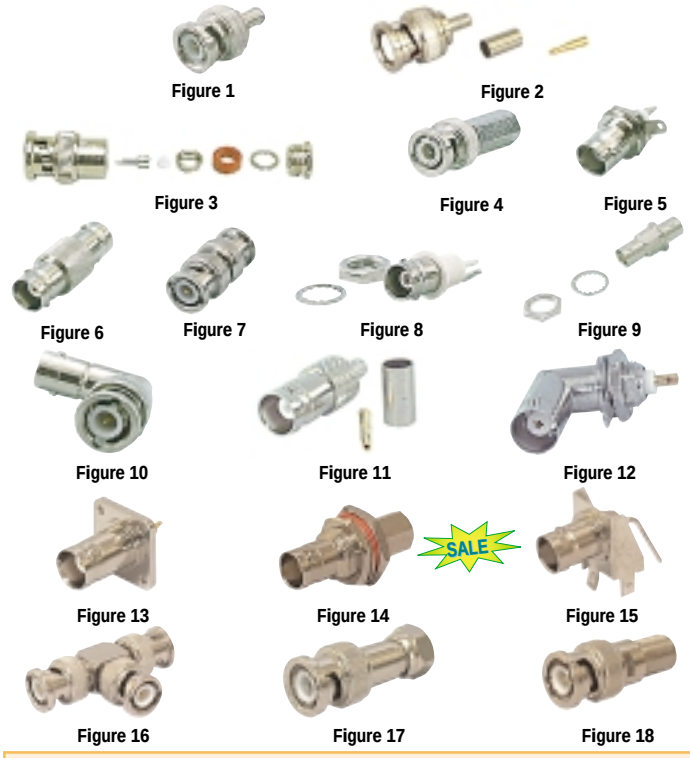
BNC & RCA Adapters

- Convert existing cabling systems to more readily available parts for expansion, replacement or upgrade



Part No.	Description	1	10	100	500
114788	RCA female to BNC male adapter	$1.25	$.99	$.79	$.49
114753	RCA male to BNC female adapter	1.35	1.15	.89	.59
114770	BNC female to "F" connector male adapter	1.49	1.25	.99	.75
159441	RCA female to female adapter	1.09	.89	.59	.49

We carry major manufacturers – call for OEM PRICING.



Amphenol

BNC and Type N 50Ω Cable Plugs

BNC 3-Piece

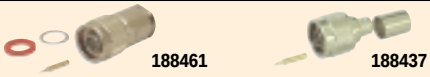
- Silver-plated
- Frequency Range: 0 – 4GHz w/ low reflection



Part No.	Amphenol No.	Cable Type	Attachment (outer/inner)	1	10	50
188306	31-320-RFX	RG58/184	crimp/crimp	$1.69	$1.59	$.95
188314	31-321-RFX	RG59	crimp/crimp	1.69	1.59	.95
188322	68175-11RFX	RG142/400; Plen. 59/62	crimp/solder	1.69	1.35	.79
188381	31-5560-RFX	RG174/179/187/188/316	crimp/press fit	1.49	1.39	1.19
188349	31-315-RFX	RG174/188/316	crimp/crimp	2.19	1.95	1.09
188357	31-242-RFX	RG179/187	crimp/crimp	2.19	1.95	1.25
188331	36650-3RFX	Plenum 58	crimp/press fit	1.59	1.49	1.29

Type N

- Silver-plated



Part No.	Amphenol No.	Cable Type	Attachment (outer/inner)	1	10	50
188461	82-202-RFX	RG8/9/144/165	clamp/solder	$6.09	$4.95	$2.89
188445	82-5375-RFX	RG58/141	crimp/crimp	4.59	2.79	1.89
188453	34025-RFX	RG58/141/142A/400	clamp/solder	5.69	4.25	2.39
188437	82-4426-11RFX	Ethernet	crimp/crimp	4.95	3.95	2.49

Amphenol

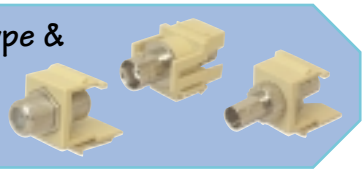
BNC 50Ω Adapters



- Silver-plated
- Frequency range: 0-4GHz w/ low reflection

Part No.	Amphenol No.	Description	1	10	50
188411	31-219-RFX	Straight jack-to-jack	$2.59	$1.95	$1.49
188429	31-208-RFX	Jack-plug-jack	4.69	3.59	2.39
188402	31-220G-RFX	Gasketed jack-to-jack	4.08	3.29	2.09

For NEW BNC, F-Type & Fiber Optic Jacks see page 152



BNC 50Ω Bulkhead Jack



- For RG-59/U cable
- Silver plated
- Frequency range: 0-4GHz w/ low reflection
- Outer/inner cable attachments: Suretwist®

Part No.	Amphenol No.	1	10	50
188365	31-5136-RFX	$2.29	$1.95	$1.19

Type N 50Ω Adapter



- Silver plated
- Jack-to-jack
- Straight

Part No.	Amphenol No.	1	10	50
188470	82-101-RFX	$4.69	$3.49	$2.45

MCX 50Ω Crimp Attachments for Flexible Cable



188592



188605



188613

- For RG-174/U, 188/U, 316/U cable
- Frequency range: 0-6GHz
- Mating: 50Ω snap-on coupling
- Temperature range: -65˚C to +165˚C
- Outer/inner cable attachment: crimp/solder
- Construction: gold plated

188592: MCX crimp plug
188605: MCX crimp jack
188613: MCX right angle plug

Part No.	Amphenol No.	1	10	50
188592	919-101P-51SX	$5.29	$4.49	$3.95
188605	919-107J-51SX	4.75	4.19	3.59
188613	919-104P-51AX	5.75	4.95	4.29

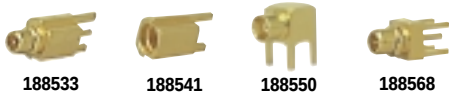
MCX 50Ω PCB Receptacle



- Frequency range: 0-6GHz
- Mating: 50Ω snap-on coupling
- Temperature range: -65˚C to +165˚C
- Terminal type: blunt post, 4 legs
- Panel jack for RG-174/U, 188/U, 316/U cable • .155" legs
- Construction: stand off pads

Part No.	Amphenol No.	1	10	50
188621	919-109J-51PX	$3.95	$3.39	$2.49

MicroMate™ (MMCX) 50Ω Connectors



188533 188541 188550 188568



188576



188584

- Frequency range: DC thru 6GHz
- Temperature range: -40˚C thru 90˚C

Edgecard
188533: Edgecard Plug • Contact: brass
188541: Edgecard Jack • Contact: BeCu

PCB Mount
188550: Right angle jack • BeCu, 1 piece
188568: Straight plug • Brass, machined

Cable Plug Connectors
- Inner/outer cable attachment: crimp/solder
- Captivated contact

188576: Straight for RG-174/U, 188/U, 316/U cable
188584: Right angle for RG-178/U, 196/U cable

Part No.	Amphenol No.	1	10	50
188533	908-21100	$6.95	$6.39	$5.59
188541	908-22100	7.69	6.59	5.75
188550	908-24100	9.79	8.29	7.29
188568	908-21103	7.29	6.29	5.19
188584	908-43200	8.69	7.29	5.65
188576	908-41300	6.95	5.95	5.25

www.jameco.com

SMA Connectors and Couplers



153293 161277 161293 161306 153285 159530 160021 160012

- 50Ω impedance • Frequency range: 0-18GHz • Temperature range: -65˚C to 165˚C
- Plating: gold and nickel • Type: couplers, right angle, bulkhead connectors

***159530/160021**: Solder cup

Part No.	Description	Cable Type	Plated	1	10	50	100
153293	SMA straight coupler female – jack-to-jack	—	Gold	$2.25	$1.95	$1.49	$1.25
161277	3-way coupler, 1 male – 2 female	—	Gold	3.25	2.75	2.25	1.95
161293	Straight coupler male – male	—	Gold	2.49	2.25	1.75	1.49
161306	Right angle coupler male – female	—	Gold	3.49	2.95	2.25	1.95
153285	SMA bulkhead solder female w/ washer, rear mount	RG58/174	Gold	2.49	2.25	1.95	1.49
159530*	SMA female panel mount conn., 4 mounting holes	RG58/174	Gold	2.49	2.25	1.75	1.49
160021*	SMA female panel mount conn., 2 mounting holes	RG58/174	Gold	2.49	2.25	1.65	1.39
160012	Panel mount feed thru connector female – female	—	Nickel	3.25	2.75	2.25	1.95

SMA Connectors and Adapters



157972 153365 145381 145373 153453 159468 153592 159476

- Application: cellular phone, data communication, instrumentation and video

Part No.	Description	Cable Type	Plated	1	10	50	100
157972	SMA 50Ω crimp type male plug connector	RG58	Gold	$2.95	$2.49	$1.95	$1.75
153365	SMA 50Ω crimp type male plug connector	RG174	Gold	3.49	2.95	2.49	2.25
145381	SMA straight female PCB mount connector, 4 legs	—	Gold	5.25	4.75	4.25	3.49
145373	SMA 90˚ female PCB mount connector, 4 legs	—	Gold	5.25	4.75	4.25	3.75
153453	SMA female to BNC male adapter	—	Nickel	2.49	2.25	1.75	1.49
159468	SMA female to BNC female adapter	—	Nickel	2.49	2.25	1.55	1.39
153592	SMA male to BNC male adapter	—	Nickel	2.95	2.25	1.75	1.59
159476	SMA male to BNC female adapter	—	Nickel	2.75	2.49	2.25	1.95

Great reasons to shop at Jameco
99.7% availability Same business day shipping until 6:00 p.m. EST Ordering 24/7/365

SMA 50Ω PCB Connectors



188509 188525



188496 188517

- Gold plated brass, 4 legs
- Frequency range: 0-18GHz
- Terminal type: blunt post

Jacks
188509: PCB straight
188525: PCB right angle

Receptacles
188496: PCB straight 188517: PCB right angle

Part No.	Amphenol No.	1	10	50
188509	901-144-8RFX	$3.69	$2.95	$2.25
188525	901-143-6RFX	5.95	4.95	3.79
188496	901-9895-RFX	3.49	2.95	2.49
188517	901-9894-RFX	6.49	5.49	4.49

SMA 50Ω Brass Plug



- Frequency range: 0-18GHz
- Outer cable attachment: crimp
- Inner cable attachment: solder
- Construction: captive contact • Type: crimp plug
- For RG-174/U, RG-188/U and RG-316/U cables

Part No.	Amphenol No.	1	10	50
188488	901-9877-RFX	$3.19	$2.59	$1.95

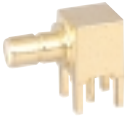
SMB Jack Connectors



- SMB bulkhead jacks for RG174 cable
- 50Ω crimp type
- Gold plated
- Use with crimping tool P/N 114534, pg 108

Part No.	Description	1	10	50
172363	Bulkhead crimp female	$3.49	$2.95	$2.49
172371	Bulkhead crimp male	3.49	2.95	2.49

SMB Connector



- 0-4GHz electrical performance
- 50Ω impedance
- Gold plated brass
- Insulation: teflon
- Contact: beryllium copper

Part No.	Description	1	10	50
167311	Fem. right angle PCB	$4.95	$4.49	$3.95

Telecom Splice Connectors



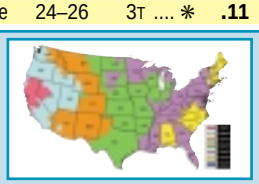
169746 169754 169738

- Provides clean, solid, and rapid connection of wires to keep communication lines free of noise
- Available to handle a wide range of conductor sizes

169754: Y-Type **169738:** T-Type

✳ Prepackaged: please order in increments of 10, 100 or 1000

Part No.	Color	Wire Gauge	No. of Conductors	1	10	100	1000
169746	Yellow	22–26	2 ✳	$.15	$.12	$.09	
169754	Red	19–26	3Y ✳	.19	.15	.12	
169738	Blue	24–26	3T ✳	.11	.10	.09	



Same business day shipping until 6:00 p.m. EST.
See page 182 for Zone Chart

Aluminum & Brass Threaded Standoffs

† Finish: Iridite (clear)[1] per MIL-C-5541-D; bright tin plate[2]; stainless steel[3]

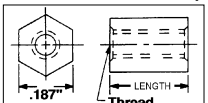
✳ Prepackaged: order in increments of 10, 100 or 1000



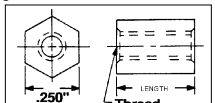
Hex .187"/ .250" Female



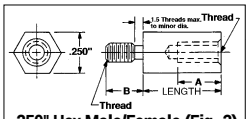
Hex .250" Male/Female



.187" Hex Female (Fig. 1)



.250" Hex Female (Fig. 2)



.250" Hex Male/Female (Fig. 3)

.187" Hex Threaded Female Standoffs

4-40 Thread (Fig. 1) .187" Hex

Part Number	Metal†	Hex Length	Pricing 1	10	100	1000
175636	Brass[2]	.187"	✳	$.12	$.09	$.05
133612	Alum[1]	.250"	✳	.17	.14	.10
133639	Alum[1]	.500"	✳	.19	.15	.12
139791	Alum[1]	.562"	✳	.05	.04	.03
133647	Alum[1]	.625"	✳	.25	.19	.15
133655	Alum[1]	.750"	✳	.35	.29	.22
139184	Alum[1]	1.000"	.35	.29	.22	.17

.250" Hex Threaded Female Standoffs

4-40 Thread (Fig. 2) .250" Hex

Part Number	Metal†	Hex Length	Pricing 1	10	100	1000
139192	Alum[1]	.250"	✳	$.15	$.12	$.09
77500	Alum[1]	.375"	✳	.17	.14	.11
134762	Alum[1]	.437"	✳	.15	.12	.09
108370	Alum[1]	.500"	✳	.22	.17	.14
77518	Alum[1]	.625"	✳	.29	.25	.19
133604	Alum[1]	.750"	✳	.29	.25	.19
139205	Alum[1]	1.000"	.35	.29	.25	.19

.250" Hex Threaded Female Standoffs

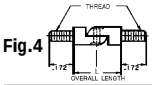
6-32 Thread (Fig. 2) .250" Hex

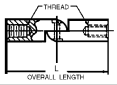
Part Number	Metal†	Hex Length	Pricing 1	10	100	1000
77534	Alum[1]	.250"	✳	$.19	$.15	$.12
133591	Alum[1]	.375"	✳	.19	.15	.12
77542	Alum[1]	.500"	✳	.22	.17	.12
77551	Alum[1]	.625"	✳	.25	.17	.10
77569	Alum[1]	.750"	✳	.25	.19	.15
77577	Alum[1]	1.000"	.35	.29	.25	.17
143407	Alum[1]	1.500"	.49	.39	.32	.27
143440	Alum[1]	1.750"	.49	.39	.32	.27

.250" Round Hinged Threaded Standoffs

6-32 Thread (both ends)

Male/Male Fig.4 Female/Female Fig.5





SALE



143520

Part Number	Metal†	Fig	Overall Length	Pricing 1	10	100
166908	Brass[2]	4	.500"	$.49	$.45	$.39
143520	Brass[2]	5	.750"	.35	.31	.28

.250" Hex Threaded Male/Female Standoffs

4-40 Thread (Fig. 3) (Thread A: 0.250"; B: 0.187")

Part Number	Metal†	Hex Length	Pricing 1	10	100	1000
77585	Alum[1]	.250"	✳	$.25	$.19	$.15
77593	Alum[1]	.375"	✳	.25	.19	.15
111755	Alum[1]	.500"	✳	.27	.22	.17
175628	Steel[3]	.580"	✳	.12	.09	.07
139213	Alum[1]	.625"	✳	.29	.25	.19
139221	Alum[1]	.750"	✳	.29	.25	.17
139230	Alum[1]	1.000"	.39	.32	.25	.19
128565	Alum[1]	1.234"	.45	.39	.29	.25
166545	Alum[1]	1.500"	.59	.49	.39	.35

.250" Hex Threaded Male/Female Standoffs

6-32 Thread (Fig. 3) (Thread A: 0.375"; B: 0.250")

Part Number	Metal†	Hex Length	Pricing 1	10	100	1000
133541	Alum[1]	.250"	✳	$.25	$.19	$.15
133567	Alum[1]	.375"	✳	.25	.19	.15
77606	Alum[1]	.500"	✳	.27	.22	.17
77622	Alum[1]	.750"	✳	.27	.22	.17
77649	Alum[1]	1.000"	✳	.29	.25	.19

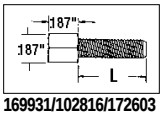
.250" Hex Threaded Male/Female Standoffs

8-32 Thread (Fig. 3) (Thread A: 0.437"; B: .375")

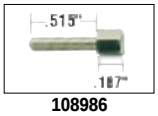
Part Number	Metal†	Hex Length	Pricing 1	10	100	1000
143511	Alum[1]	.500"	✳	$.19	$.17	$.15

.187 Hex Threaded Male/Female Standoff

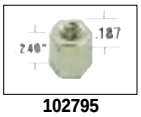
4-40 x .187" Jack Screws and Hex Nut



169931/102816/172603



108986



102795

Part No.	Description (Brass[3])	1	10	100	1000
169931	.275"L jack screws	✳	$.15	$.12	$.09
172603	.315"L jack screws	✳	.13	.09	.05
102816	.435"L jack screws	✳	.17	.13	.10
108986	.515"L jack screws	✳	.19	.14	.11
175636	.187"L hex nuts	✳	.12	.09	.05
102795	.240"L hex nuts	✳	.17	.12	.06

30 Day Money Back Guarantee

SAE Hardware

• Zinc-plated steel

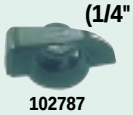


Prepackaged: please order in increments of 100 or 1000

Part Number	Screw Size	Thread	Length (inches)	100 piece minimum 100	1000
Slotted Pan Head Machine Screws					
38172	2-56	Std	.25	$.036	$.024
40951	4-40	Std	.25	.016	.012
40969	4-40	Std	.375	.016	.012
106809	4-40	Std	.50	.016	.012
106542	6-32	Std	.25	.02	.013
42446	6-32	Std	.375	.024	.016
42438	6-32	Std	.50	.03	.018
106817	8-32	Std	.375	.02	.018
106796	8-32	Std	.50	.04	.024
Hex Nuts					
38164	2-56	Std	.183	$.03	$.018
40942	4-40	Std	.243	.016	.012
42420	6-32	Std	.306	.02	.012
51553	8-32	Std	.334	.03	.018
Flat Washers					
106825	4	.281		$.024	$.016
106833	6	.373		.035	.018
106841	8	.377		.04	.025
Internal Tooth Lock Washers					
106850	4	.258		$.016	$.012
106868	6	.277		.024	.016
106876	8	.323		.024	.016
Split Lock Washers					
106788	2	.161		$.035	$.022
40977	4	.205		.025	.018
42462	6	.240		.028	.02
51609	8	.279		.04	.025

Instrumentation Knobs

(1/4" Shaft Diameters)



102787



104176



136240/138392

• Fits 0.25" shafts

102787/104176:

• Brass insert and set screw for strength and durability

• Compatible with all rotary switches

136240: • Used with 1/2 watt and 2 watt linear taper potentiometers, pg 27 & 28

138392: • Brass insert, dual set screws

• Black knob with inset chrome top

Part No.	Product No.	Size	1	10	100
102787	KN141	1.25"L x .54"H	$.59	$.49	$.39
104176	KN143	.75"D x .49"H...	.69	.59	.49
136240	KN145	.54"D x .52"H...	.84	.79	.69
138392	PKG90B	.85"D x .56"H...	.89	.75	.59

Dial and Knob

183687: 2.2" dia. circular dial (.38" dia. shaft)

183679: ¼" shaft finger grip knob; 1.5" diameter



183687



183679

Part No.	Product No.	1	10	50
183687	5000	$1.59	$1.45	$1.29
183679	5150	6.95	6.25	5.63

Aluminum Instrumentation Knobs

(1/8" and 1/4" Shaft Diameters)

Includes: Set screw for secure attachment

138384: • Coarse surface for sensitive control



162481 Fig. 1



138384 Fig. 2



162499 Fig. 3

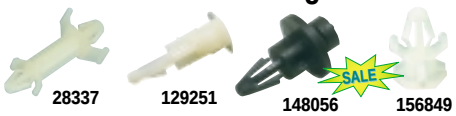


138481 Fig. 4

Part No.	Product No.	Figure	Description	Shaft Dia. (in.)	Size (in.) Dia.	Height	Pricing 1	10	100
162481	K5-1/4S	1	Silver position pointer	.250	.50	.56	$.99	$.85	$.59
138384	KD500G	2	Silver position pointer	.125	.50	.63	1.25	1.09	.89
162499	K5-1/4B	3	White position pointer	.250	.50	.56	1.39	1.25	.89
138481	KN031	4	Black position pointer	.250	.61	.65	1.25	1.09	.89
138501	KN032	4	Black position pointer	.250	.87	.75	1.49	1.25	1.09
138510	KN033	4	Black position pointer	.250	1.18	.87	2.49	2.29	1.95

Up to 60% off!
Check out our inventory overstock sale
See pages 4 & 5 for complete details

PCB Standoff Mounting Hardware



28337 129251 148056 156849

- Snap "on" • Nylon

28337: 1.2"L x 0.6"W for 0.2" holes
129251: 0.9"L x 0.4"Dia. for 0.2"/0.3" holes
148056: 0.8"L x 0.5"W for 0.1"/0.2" holes
156849: 0.5"L x 0.35"Dia. for 0.187" holes
156831: 0.68"L x 0.32"Dia for 0.140" holes



156831

✳ **Please order in increments of 10, 100 or 1000**

Part No.	Product No.	1	10	100	1000
28337	PCST	✳	$.15	$.07	$.04
129251	PCST2	✳	.15	.11	.07
148056	PCST3	✳	.09	.06	.03
156849	KCS5	✳	.09	.06	.04
156831	KCS10	✳	.12	.08	.05

Snap Rivet Set

- Rivet post pressure expands legs for fast and permanent fastening
- Size: (rivet) 0.3"L; (spreader): 0.25" x 0.117" Dia.

SALE



Rivet Spreader

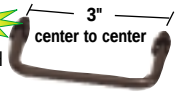
✳ **Please order in increments of 10, 100 or 1000**

Part No.	Description	10	100	1000
157374	Snap rivet set ..... ✳	$.09	$.06	$.05

External Threaded Handle

- 90˚ free fall
- Black anodized aluminum
- Size: 0.25" Dia. x 3.0"L x 1.46"H

SALE



Requires: Two 1/4" – 28 nuts

Part No.	Description	1	10	100
180638	Threaded handle	$2.95	$2.49	$1.95

Wall Transformer Enclosures

- Enclosures include 3-prong power plug and cable strain relief
- Material: noryl
- Color: black
- Size: P/N 115051 – 3.35"H x 2.68"W x 2.22"D
  P/N 115043 – 3.34"H x 2.70"W x 2.26"D



115051

Part No.	Style	1	10	100
115051	Non-vented	$2.25	$1.95	$1.69
115043	Vented	2.25	1.95	1.69

Vented ABS Table Top Enclosure

- 2-piece screw-together housing
- Strain reliefs for AC/DC power entry and sensor/control cable
- Vents and four feet allow air circulation
- Size: 5.0"L x 3.5"W x 2.7"H

SALE



Includes: 2-piece ABS plastic enclosure, 2 cable strain reliefs, 4 housing screws, 3 internal mounting holes (0.07" dia.) for project board and transformer well

Part No.	Description	1	10	100
151159	Table top enclosure ..	$3.25	$2.91	$2.61

Plastic Fliptop Box

Double-Sided Box

- Unique double-sided design allows box to be opened from both top and bottom – like having two boxes in one!
- Color: green
- Size: 6.5"L x 4.0"W x 1.5"H

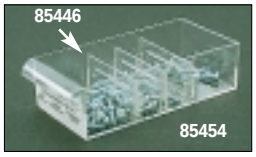


Part No.	Description	1	10	100
148865	Double sided box	$2.59	$2.29	$1.95

Component Cabinet



81701



Drawer (85454)
Divider (85446)

- Drawer can be divided into 4 sections (clear)
- Wall mountable cabinet (ABS black)
- Cabinet size: 6.0"D x 15"W x 7.9"H • Wt.: 4.7 lbs.
- Drawer size: 5.5"L x 2.7"W x 1.5"H
- Divider size: 2.4"L x 1.1"H

Includes: 20 clear plastic drawers, 20 dividers and 30 adhesive I.D. labels

✳ **Prepackaged: please order in increments of 10 or 100**

Part No.	Description	1	10	50
81701	Component cabinet	$15.95	$13.95	$12.49
85454	Drawer for cabinet	.59	.53	.45
85446	Divider for drawer ..... ✳		.19	.15

Jameco Stocks Over 6,000 Quality Products

SMD Plastic Fliptop Case

128 Compartments for Surface Mount Components

- 8 rows x 16 columns grid
- Fliptop openings on each bin
- Color: gray
- Padded cover locks bins closed
- Perfect match to store P/N 156881 SMD resistor assortment, pg 25
- Size: 11.0"L x 8.3"W x 1.7"Thick
- Weight: 1.4 lbs.





Includes: Labels for each bin

Part No.	Description	1	10
164267	SMD fliptop case	$44.95	$39.95

Plastic Jar

- Ideal for storing small items such as nuts, bolts, screws, ICs, sockets, etc.
- Clear plastic jar with white top lid
- Size: 2.3"Dia. x 2.4"H

SALE



Part No.	Description	1	10	100	1000
179952	Plastic jar	$.39	$.32	$.27	$.24

3M Adhesive Rubber Feet

These are perfect for project boxes, providing a non-slip, non-scratch surface.



Fig. 1



Fig. 2



Fig. 3



Fig. 4



126981



119618

Part No.	Product No.	Type	Fig.	Pack	Dimensions (W" x H")	1	10	50
119618	SJ5012BLK4	Black cylindrical	1	4	.50 x .14	$.99	$.89	$.79
142658	SJ5012BLKC	Black cylindrical	1	100	.50 x .14	5.95	5.35	4.79
142771	SJ5008BLKC	Black tapered square	2	100	.50 x .12	5.95	5.35	4.79
142682	SJ5018BLKC	Black tapered square	3	100	.50 x .23	8.95	7.95	6.95
126981	SJ5023BLK4	Black tapered square	4	4	.81 x .30	1.95	1.75	1.59
142666	SJ5023BLKC	Black tapered square	4	100	.81 x .30	14.95	12.95	11.49

Plastic Fliptop Boxes

- Clear plastic box with a clear plastic lid and removable dividers

100255: Size: 8.4"L x 4.5"W x 1.4"H
- 18 compartments (1.4" x 1.5" each)

148902: Size: 10.2"L x 4.7"W x 1.6"H
- 12 compartments (1.7" x 2.3" each)



100255

Part No.	Description	1	10	100
100255	Fliptop box	$2.25	$1.95	$1.75
148902	Fliptop box	3.95	3.49	2.95

Bug Boxes



11375 11341

- Anti-static plastic
- Fits in bug cage (P/N 11332, below)
- **11341:** stores sixty 8-pin or thirty 16-pin DIPs
- **11375:** Designed to store components
- Color: blue
- Box size: 4.9"L x 3.3"W x 0.6"H

Part No.	Description	1	10	100
11341	30 individual comp. ...	$3.95	$3.49	$2.75
11375	3 comp./6 vertical and 6 horizontal dividers ...	4.49	3.95	3.49

Bug Trays



11800 11826

- Fits in bug cage (P/N 11332, below)
- **11826 Open:** 1 compartment 4.6"L x 3.2"W x 0.4"H
- **11800 Divided:** 10 compartments 3.2"L x 0.4"W x 0.4"H ea.
- Tray size: 4.8"L x 3.6"W x 0.5"H

Part No.	Description	1	10	100
11826	Open bug tray	$3.45	$3.10	$2.79
11800	Divided bug tray	3.45	3.10	2.79

Bug Cage



- Holds bug boxes or trays
- Modular and interlocking
- Color: blue • Weight: 0.7 lbs.
- Cage size: 5.0"L x 3.9"W x 5.1"H

Bug boxes not included

Part No.	Description	1	10	100
11332	Bug cage	$6.95	$5.95	$4.95

Stackable Drawers



- Case size: 4.5"L x 4.4"W x 2.3"H
- Drawer size: 4.4"L x 4.0"W x 0.9"H
- Color: blue/white

Part No.	Description	1	10	100
11906	Case/drawers	$3.49	$2.95	$2.49

Plastic IC Storage Tubes and Rubber Rail Stops

29516: Thin tube (rail) fits 8, 14, 16, 18, 20 and 22-pin integrated circuits. Length: 23.75"
29524: Wide tube (rail) fits 24, 28, 32, 40 and 48-pin integrated circuits. Length: 20"
29583: Rubber stops used to plug plastic rail ends



29524



29583

✳ **Prepackaged: please order in increments of 10 or 100**

Part No.	Prod. No.	Description	1	10	100
29516	RIC20	Thin rail	$.49	$.39	$.29
29524	RIC220	Wide rail	.49	.39	.29
29583	RRS	Rubber stop ..... ✳		.06	.05

www.jameco.com

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

Kits include the Most Popular Components and a Cabinet with extra drawers for your Customized Expansion



84996 (LED Kit)

20-drawer component cabinet with every kit!

Each Kit includes a 20-Drawer Component Cabinet (81701), 20 clear plastic drawers (85454), 20 clear dividers (85446), 30 adhesive labels for drawers to identify parts in kit, all Electronic Components listed in each kit.

- Cabinet size: 6.0"L x 15.0"W x 7.9"H
- Drawer size: 5.5"L x 2.7"W x 1.5"H
- Cabinet: ABS-Black • Weight: 4.6 to 6.4 lbs.
- Cabinet is wall-mountable or free standing

Each Refill Package includes all Electronic Components listed in each kit and each group of Components separately packaged.

When your cabinet needs a refill just call 1-800-831-4242



108433 (Hardware Kit)

LEDs & LED Mounting Hardware Kit

$85 VALUE

See pages 31 & 32 for photos and specs

Includes 560 pcs. (20 types) LEDs and mounting hardware

10 each	10 each	10 each	10 each	100 each
BG209	BR5704	XC209G	XC556G	LMH100
BR209	CTP280	XC209Y	XC556Y	LMH200
BY209	HLMT-CL00	XC410G	XC5410	XC209R
BG5704	XC52RG	XC410R	XC5491	XC556R

Part No.	Description	Weight	1	10
84996	560 pcs. LED & Hardware kit (SALE)	5.0 lbs.	**$59.95**	**$49.95**

7400 Series IC Kit

$160 VALUE

Includes 350 pcs. (30 types) 7400 (TTL) Integrated Circuits

10 each	10 each	10 each	10 each	10 each	20 each
7402	7416	7438	74107	74157	7400
7405	7417	7447	74123	74160	7404
7408	7420	7470	74132	74174	7406
7410	7430	7485	74151	74175	7407
7414	7432	7495	74153	74279	7474

84953	350 pcs. 7400 series IC kit	6.2 lbs.	**$129.95**	**$116.95**

74LS00 Series IC Kit

$137 VALUE

Includes 420 pcs. (35 types) 74LS (TTL) Integrated Circuits

10 each	10 each	10 each	10 each	20 each
74LS05	74LS73	74LS125	74LS193	74LS00
74LS10	74LS75	74LS139	74LS240	74LS02
74LS11	74LS85	74LS151	74LS244	74LS04
74LS14	74LS86	74LS155	74LS245	74LS08
74LS20	74LS90	74LS157	74LS273	74LS32
74LS30	74LS93	74LS174	74LS373	74LS74
74LS47	74LS123	74LS175	74LS374	74LS138

84961	420 pcs. 74LS series IC kit	6.7 lbs.	**$109.95**	**$99.95**
130391	Refill for 84961 (420-pc.)	2.0 lbs. ..	**94.95**	**85.95**

CD4000 Series IC Kit (CMOS)

$99 VALUE

Includes 300 pcs. (25 types) CD4000 Series Integrated Circuits

10 each	10 each	10 each	10 each	20 each
CD4015	CD4024	CD4051	CD4093	CD4001
CD4016	CD4027	CD4069	CD4511	CD4011
CD4017	CD4040	CD4070	CD4538	CD4013
CD4020	CD4046	CD4071	CD4543	CD4049
CD4023	CD4050	CD4081	CD4584	CD4066

84970	300 pcs. CD4000 series IC kit	6.1 lbs.	**$79.95**	**$71.95**
130403	Refill for 84970 (300 pcs.)	1.4 lbs. ..	**64.95**	**57.95**

Linear Series IC Kit

$191 VALUE

Includes 480 pcs. (40 types) Linear Series Integrated Circuits

10 each	10 each	10 each	10 each	20 each
TL072CP	LM337T	LF412CN	ULN2803A	LM317T
TL074CN	LF353N	LMC555CN	NE5532	LM324N
TL082CP	LF356N	LM556N	7808T	LM339N
TL084CN	LM358N	LM723CN	78L12	LM741CN
MAX232CPE	LM386N-1	LM1458N	7815T	LM555CN
LM301N	LM386N-3	LM1488N	7905T	7805T
LM308N	LM393N	LM1489N	7912T	78L05
LM311N	LF411CN	ULN2003A	7915T	7812T

84988	480 pcs. Linear series IC kit	6.0 lbs.	**$169.95**	**$152.95**
130411	Refill for 84988 (480 pcs.)	1.3 lbs.	**154.95**	**139.95**

Low Profile IC Socket Kit

$42 VALUE

Includes 300 pcs. (10 types) Solder tail (Tin) IC Sockets

10 each	20 each	20 each	50 each	50 each
22LP	18LP	28LP	8LP	16LP
24SLP	24LP	40LP	14LP	20LP

85075	300 pcs. LP IC Socket kit	5.5 lbs.	**$34.95**	**$31.95**

1/8 Watt Carbon Film Resistor Kit

$33 VALUE

Includes 540 pcs. (30 values) 1/8 watt 5% Resistors

10 each	10 each	10 each	10 each	50 each
10Ω	470Ω	3.3kΩ	27kΩ	100Ω
47Ω	680Ω	5.1kΩ	33kΩ	220Ω
150Ω	1.5kΩ	5.6kΩ	47kΩ	1kΩ
270Ω	2kΩ	6.8kΩ	470kΩ	4.7kΩ
330Ω	2.2kΩ	15kΩ	1MΩ	10kΩ
390Ω	2.7kΩ	22kΩ	10MΩ	100kΩ

Part No.	Description	Weight	1	10
108329	540 pcs. 1/8 watt Resistor kit	4.9 lbs.	**$27.95**	**$24.95**
108302	Refill for 108329 (540 pcs.)	0.2 lbs. ...	**12.95**	**11.49**

1/4 Watt Carbon Film Resistor Kit

$32 VALUE

Includes 540 pcs. (30 values) 1/4 watt 5% Resistors

10 each	10 each	10 each	10 each	50 each
10Ω	470Ω	2.7kΩ	22kΩ	100Ω
47Ω	680Ω	3.3kΩ	33kΩ	220Ω
150Ω	1.2kΩ	5.1kΩ	47kΩ	1kΩ
270Ω	1.5kΩ	5.6kΩ	470kΩ	4.7kΩ
330Ω	2kΩ	15kΩ	1MΩ	10kΩ
390Ω	2.2kΩ	20kΩ	10MΩ	100kΩ

81832	540 pcs. 1/4 watt Resistor kit	4.9 lbs.	**$27.95**	**$24.95**
103165	Refill for 81832 (540-pc.)	0.2 lbs. ..	**12.95**	**11.49**

1/2 Watt Carbon Film Resistor Kit

$36 VALUE

Includes 540 pcs. (30 values) 1/2 watt 5% Resistors

10 each	10 each	10 each	10 each	50 each
10Ω	470Ω	3.3kΩ	27kΩ	100Ω
47Ω	680Ω	5.1kΩ	33kΩ	220Ω
150Ω	1.5kΩ	5.6kΩ	47kΩ	1kΩ
270Ω	2kΩ	6.8kΩ	470kΩ	4.7kΩ
330Ω	2.2kΩ	15kΩ	1MΩ	10kΩ
390Ω	2.7kΩ	22kΩ	10MΩ	100kΩ

107879	540 pcs. 1/2 watt Resistor kit	5.1 lbs.	**$29.95**	**$26.95**
107852	Refill for 107879 (540 pcs.)	0.4 lbs. ..	**14.95**	**13.49**

1/2 Watt Single Turn Cermet Pot Kit

See page 28 (63P Series) for photos and specs

$80 VALUE

Includes 100 pcs. (10 values) 1/2 watt Linear Taper Potentiometer

10 each	10 each	10 each	10 each	10 each
63P500Ω	63P5kΩ	63P500kΩ	63P1kΩ	63P50kΩ
63P2kΩ	63P20kΩ	63P1MΩ	63P10kΩ	63P100kΩ

85032	100 pcs. single turn Pot kit	4.9 lbs.	**$59.95**	**$53.95**

3/4 Watt 15 Turn Cermet Pot Kit

See page 27 (43P Series) for photos and specs

$110 VALUE

Includes 100 pcs. (10 values) 3/4 watt Linear Taper Potentiometer

10 each	10 each	10 each	10 each	10 each
43P500Ω	43P5kΩ	43P500kΩ	43P1kΩ	43P50kΩ
43P2kΩ	43P20kΩ	43P1MΩ	43P10kΩ	43P100kΩ

85041	100 pcs. 15 turn Pot kit	4.9 lbs.	**$79.95**	**$71.95**

Switch Assortment Kit

See pages 39 & 40 for photos and specs

$121 VALUE

Includes 150 pcs. (15 types) PB, Slide, Dip & Toggle Switches

10 each	10 each	10 each	10 each	10 each
206-4	JMT121	JMT223	MPC221	MS103
206-8	JMT123	MPC121	MPC223	SDTX620K
JMT113	JMT221	MPC123	MS102	SW153

85059	150 pcs. Switch kit	5.0 lbs.	**$89.95**	**$80.95**

Hardware, Spacer and Standoff Kit

SALE

$71 VALUE

Includes 2400 pcs. (24 types) Spacers, Standoffs, Nuts, Flat, Tooth & Lock Washers and Slotted PH Screws

100 each	100 each	100 each	100 each	100 each	100 each
Spacers	Hex nuts	Flat,	Int. tooth,	Split lock	PH machine screws
—	2-56	—	—	#2	2-56 x 1/4, —
4-40	4-40	#4	#4	#4	4-40 x 1/4, 1/2
6-32	6-32	#6	#6	#6	6-32 x 1/4, 1/2
8-32	8-32	#8	#8	#8	8-32 x 3/8, 1/2

108433	2400 pcs. Hardware kit	7.5 lbs.	**$59.95**	**$49.95**
130497	Refill for 108433 (2400 pcs.)	2.7 lbs. ..	**44.95**	**39.95**

Ceramic Capacitor Kit

$39 VALUE

Includes 520 pcs. (10 values) 50v ±20% Ceramic Disc Capacitors

20 each	20 each	20 each	100 each	100 each
10pF	47pF	470pF	.022µF	.01µF
22pF	100pF	.001µF	.047µF	.1µF

Part No.	Description	Weight	1	10
81859	520 pcs. Ceramic Cap. kit	5.0 lbs.	**$29.95**	**$26.95**
130232	Refill for 81859 (520 pcs.)	0.3 lbs. ..	**14.95**	**13.49**

Monolithic Capacitor Kit

$42 VALUE

Includes 280 pcs. (10 types) 50v ± 20% Monolithic Ceramic Caps

10 each	10 each	10 each	10 each	100 each
22pF	.001µF	.047µF	.47µF	.01µF
100pF	.0022µF	.22µF	1µF	.1µF

171475	280 pcs. Monolithic Cap kit	5.0 lbs.	**$32.95**	**$29.95**
171483	Refill for 171475 (280 pcs.)	0.3 lbs. .	**17.95**	**15.95**

Radial Electrolytic Capacitor Kit

$39 VALUE

Includes 240 pcs. (15 values) ±20% Radial Electrolytic Capacitors

10 each	10 each	20 each	20 each	20 each
100µF@50v	1000µF@16v	1µF@50v	3.3µF@50v	22µF@50v
220µF@25v	2200µF@25v	1µF@100v	4.7µF@50v	47µF@50v
470µF@25v	3300µF@25v	2.2µF@50v	10µF@50v	100µF@25v

81867	240 pcs. Radial Cap. kit	5.3 lbs.	**$29.95**	**$26.95**
130331	Refill for 81867 (240 pcs.)	0.5 lbs. ..	**14.95**	**13.49**

Axial Electrolytic Capacitor Kit

$46 VALUE

Includes 140 pcs. (10 values) ±20% Axial Electrolytic Capacitors

10 each	10 each	10 each	20 each	20 each
47µF@50v	220µF@50v	1000µF@25v	1µF@50v	10µF@50v
100µF@50v	470µF@50v	2200µF@16v	4.7µF@50v	2.2µF@50v

81875	140 pcs. Axial Cap. kit	5.3 lbs.	**$34.95**	**$29.95**
130340	Refill for 81875 (140 pcs.)	0.6 lbs. ..	**19.95**	**17.95**

Mylar Capacitor Kit

$48 VALUE

Includes 280 pcs. (10 values) 100v ±10% Mylar Capacitors

10 each	10 each	10 each	10 each	100 each
.001µF	.022µF	.047µF	.47µF	.01µF
.0047µF	.033µF	.22µF	1µF	.1µF

81883	280 pcs. Mylar Cap. kit	5.1 lbs.	**$34.95**	**$31.49**
130358	Refill for 81883 (280 pcs.)	0.3 lbs. ..	**19.95**	**17.95**

Dipped Tantalum Capacitor Kit

$68 VALUE

Includes 150 pcs. (15 values) ±20% Dipped Tantalum Capacitors

10 each	10 each	10 each	10 each	10 each
.1µF@35v	1µF@25v	3.3µF@35v	10µF@16v	22µF@16v
.22µF@35v	1µF@35v	4.7µF@35v	10µF@35v	33µF@25v
.47µF@35v	2.2µF@16v	6.8µF@35v	15µF@25v	47µF@25v

81841	150 pcs. Tantalum Cap. kit	4.8 lbs.	**$49.95**	**$44.95**
130260	Refill for 81841 (150 pcs.)	0.3 lbs. ..	**34.95**	**31.49**

Diode Assortment Kit

$45 VALUE

See page 21-22 for photos and specs

Includes 420 pcs. (15 types) Zener, Switching and Silicon Rectifiers

10 each	10 each	10 each	10 each	100 each
1N270	1N4001	1N4735	1N5408	1N914
1N751	1N4007	1N4742	C106B1	1N4004
1N3600	1N4733	1N5404	KBP04M	1N4148

82587	420 pcs. Diode kit	5.0 lbs.	**$39.95**	**$35.95**
130366	Refill for 82587 (420 pcs.)	0.3 lbs. ..	**24.95**	**22.49**

Transistor Assortment Kit

See page 18-19 for photos and specs

$101 VALUE

Includes 560 pcs. (20 types) NPN, PNP Transistors

10 each	10 each	10 each	10 each	100 each
2N2222A	2N4401	MJE3055T	TIP31A	2N3904
2N2907A	2N4403	MPF102	TIP32A	2N3906
2N3053	2N5951	MPSA06	TIP102	PN2222
2N3055	2N7000	MPSA13	TIP120	PN2907

82595	560 pcs. Transistor kit	5.1 lbs.	**$79.95**	**$71.95**
130374	Refill for 82595 (560 pcs.)	0.4 lbs. ..	**64.95**	**58.95**


135394 – Electrolytic


135271 – LEDs


169578 – Photocells


18294 – Toy Motors


149649 – Fans


55968 – Spacers


81701 – Cabinet

* LB grab bag quantities are approximate • Opened grab bags are not returnable • Use our 20-drawer cabinet w/ labels to store your components, P/N 81701, pg 61

Highlighted on this page you will find Jameco's nine most popular component Grab Bags. They are all individually bagged, and are combined to make up the Schwab's School Selection (P/N 163213) referenced on the bottom of the page.

Capacitors

Part No.	Product No.	Description	Wt. (lbs.)	1	10
17857	GB100	200 asst. ceramic disc capacitors	0.2	$4.95	$4.49
135335	GB100LB*	1 lb. (813 pcs) asst. ceramic disc caps	1.0	14.95	13.49
17881	GB101	100 asst. mylar capacitors	0.3	5.95	5.35
135458	GB101LB*	1 lb. (440 pcs) asst. mylar capacitors	1.0	14.95	13.49
17911	GB102	100 asst. electrolytic capacitors radial, axial, snap	0.5	4.95	4.49
135394	GB102LB*	1.5 lb. asst. (300 pcs) electrolytic caps. radial, axial, snap (photo above)	1.5	12.95	11.49
17945	GB103	100 asst. tantalum capacitors (dipped epoxy and solid tubular)	0.1	9.95	8.95

Diodes, Transistors and Crystals/Oscillators

Part No.	Product No.	Description	Wt. (lbs.)	1	10	25
17961	GB107	200 asst. diodes (zener, switching, silicon)	0.1	$5.95	$5.35	$4.79
18171	GB127	100 asst. transistors (NPN, PNP, power)	0.1	5.95	5.35	4.79
114446	GB150	50 asst. crystals/oscillators	0.2	6.95	6.25	5.59

Trimmer and Single-Turn Potentiometers

Part No.	Product No.	Description	Wt. (lbs.)	1	10
18075	GB113	100 asst. 1/10W to 1/8W trimmer pots (100Ω to 2MΩ values)	0.1	$5.95	$5.35
18278	GB174	100 asst. 1/4W & 1/2W single turn pots (100Ω to 5MΩ asst. values)	0.2	6.95	6.25
135407	GB174LB*	1 lb. (295 pcs) 1/4W & 1/2W single turn pots (100Ω to 5MΩ asst. values)	1.0	14.95	13.49

Integrated Circuits and Sockets

Part No.	Product No.	Description	Wt. (lbs.)	1	10
17996	GB108	100 asst. 7400, 74LS00 series (74, 74C, 74F, 74S, 74ALS, 74HC, 74HCT)	0.2	$6.95	$6.25
135280	GB108LB*	1 lb. (400 pcs) asst. 7400, 74LS00 series (74, 74C, 74F, 74S, 74ALS, 74HC, 74HCT)	1.0	17.95	15.95
18024	GB109	100 asst. linear series (LM300, 500, 700, 7800, 7900 regulators) DIP, TO-3, TO-220	0.6	7.95	6.95
145242	GB109LB*	2 lb. (300 pcs) asst. linear series (LM300, 500, 700, 7800, 7900 regulators)	2.0	17.95	15.95
114964	GB171	100 asst. microprocessor series (micros, PALS, RAMs, PROMS, EPROMs)	0.7	9.95	8.95
105620	GB120	100 asst. IC sockets (DIP IC, PGA, TO-3)	0.3	5.95	5.35
135386	GB120LB*	1 lb. (260 pcs) asst. IC sockets (DIP IC, PGA, TO-3)	1.0	10.95	9.95

Surprise Computer Products Grab Bag

Best Bargain!



Various electronic components (capacitors, connectors, sockets, LEDs, resistors, diodes, ICs transistors, pots, oscillators/resonators, inductors, crystals, switches), cables, power supply, transformer, fan, PC board, keyboard and miscellaneous computer products.

Part No.	Product No.	Description	Wt. (lbs.)	1	10
18331	GB190	Component/computer grab bag	20.0	$17.95	$14.95

LEDs and Displays

Part No.	Product No.	Description	Wt. (lbs.)	1	10	25
18041	GB110	100 asst. sizes and colored LEDs (T1/T1 3/4 round and rectangular)	0.1	$5.95	$5.35	$4.79
18323	GB186	500 asst. sizes #18041 LEDs	0.3	19.95	17.95	15.95
135271	GB110LB*	1 lb. (1900 pcs) asst. #18041 LEDs	1.0	39.95	37.95	35.95
18201	GB162	50 asst. sizes of colored displays (7-segment LED, modules, stick)	0.5	8.95	7.95	6.95

1/4W, 1/2W Resistors and Photocells

Part No.	Product No.	Description	Wt. (lbs.)	1	10
18104	GB116	200 asst. 1/4 watt resistors (5%/10%)	0.1	$4.95	$4.49
135351	GB116LB*	1 lb. (2200 pcs) asst. 1/4 watt resistors	1.0	17.95	16.95
18139	GB117	200 asst. 1/2 watt resistors (5%/10%)	0.2	6.95	6.25
169578	GB125	100 asst. sizes and values photocells	0.2	7.95	6.95

Switches, Toy Motors and Fans

Part No.	Product No.	Description	Wt. (lbs.)	1	10
18235	GB165	50 asst. switches (toggle, push button, rocker, slide)	0.4	$7.95	$6.95
135378	GB165LB*	1 lb. (135 pcs) asst. #18235 switches	1.0	17.95	15.95
18294	GB182	5 asst. toy DC motors (1.5 – 12VDC)	1.1	4.95	4.49
149649	GB193	5 asst. AC/DC fans (photo above)	4.5	7.95	6.95

Hardware Assortments



• 2-56 • 4-40 • 6-32 • 8-32
• Screws • Nuts • Washers • Lock Washers
• Plastic • Steel • Brass • Aluminum

Part No.	Product No.	Description	Wt. (lbs.)	1	10	25
171571	GB149*	1 lb. (500 pcs) asst. types screws, nuts, washers & lock washers	1.0	$4.95	$4.49	$3.95
171635	GB149LB*	3 lbs. (1400 pcs) asst. types same as P/N 171571 (above)	3.0	10.95	9.95	8.95

Spacers and Standoffs

• Round • Hex • Aluminum • Brass • Steel • Plastic • Nylon

Part No.	Product No.	Description	Wt. (lbs.)	1	10	25
166481	GB440	100 asst. size 4-40 spacers/standoffs	0.5	$6.95	$6.25	$5.59
166490	GB632	100 asst. size 6-32 spacers/standoffs	0.5	6.95	6.25	5.59
55968	GB140	100 asst. sizes 4-40, 6-32, 8-32 round/hex, alum/brass/nylon spacers	0.3	7.95	6.95	6.25
135423	GB140LB*	1 lb. (310 pcs) same as P/N 55968	1.0	17.95	15.95	13.95

Schwab's School Selection

$50.55 Value



Jameco's nine most popular component Grab Bags (highlighted on this page) all individually bagged. North Dakota Engineer, Loren Schwab, recommended this selection of products as a standard item. All components are individually bagged as shown in photo. He also recommended a 20-drawer component cabinet with labels (81701 photo above) for storage.

What's your suggestion?

Includes: Ceramic and electrolytic capacitors, diodes, transistors, potentiometers, switches, LEDs, 1/4W resistors, spacers and standoffs.

Part No.	Product No.	Description	Wt. (lbs.)	1	10
163213	GB197	Schwab's School Selection	3.3	$39.95	$34.95
81701	CAB20	20-drawer component cabinet	4.7	15.95	13.95

Surprise Component Grab Bag

Our Best Seller!



Axial and radial electrolytics, monolithic, dipped silver mica and mylar capacitors, connectors, sockets, thermistors, LEDs, resistor networks, diodes, ICs, standoffs, transistors, oscillator/resonators, inductors, crystals, resistors, pots and switches (1075 pcs).

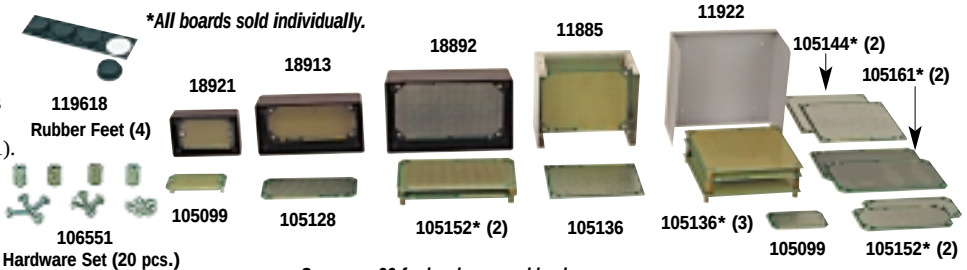
Part No.	Product No.	Description	1	10	25
135263	GB191LB*	3 lbs. electronic components	$14.95	$12.95	$11.95

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

Prototype Builder Boards, Enclosures and Hardware

Call for additional OEM pricing.

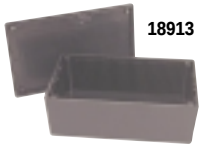
These prototype builder boards are specifically designed to fit into our ABS speedy boxes, die cast aluminum enclosures, aluminum boxes, metal cabinets and heavy-duty instrument cases. These pre-cut boards have 2 or 4 mounting holes compatible with the PC board mounting hardware listed at the bottom, right (P/N 106551).
Board description: laminated glass epoxy 1/16" thick fire retardant per FR-4 specs. Copper-clad and solder mask one side. Drilled holes: .035" diameter on .080" square pad. Pads spaced on .10" x .10" grid.



See page 60 for hardware and knobs

See page 98 for more details

ABS Speedy Enclosures



Will not crack or split when drilled or punched. PCB mounting slots on all four sides. Lid has a lip for precision fit (adds 0.4" height). Complete with four screws and lid. All sizes below are for interior dimensions. • Color: black • ABS plastic

Part No.	Product No.	Size (L x W x D)	Weight (lbs.)	1	10	50	100
18921	H2855	3.1" x 2.0" x 0.9"	0.1	$2.39	$2.15	$1.95	$1.49
18913	H2853	4.9" x 2.5" x 1.5"	0.2	2.49	2.25	1.95	1.75
18892	H2851	6.0" x 3.5" x 1.9"	0.4	3.15	2.75	2.49	2.25
18905	H2852	7.5" x 4.3" x 2.3"	0.5	4.29	3.69	3.29	2.69

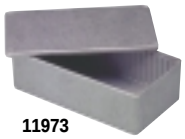
Printed Circuit Boards for ABS Speedy Enclosures



• Power/ground, perimeter bus with pad per hole (*except P/N 105099)
• Plated one side holes

Part No.	Product No.	Size (L x W)	No. of Holes	1	10	50	100
105099*	2855PCB	2.7" x 1.6"	288	$5.49	$4.95	$4.49	$3.95
105128	2853PCB	4.4" x 2.0"	669	7.95	6.95	6.25	5.59
105152	2851PCB	5.5" x 3.1"	1450	9.95	8.95	7.95	6.95
105161	2852PCB	7.0" x 3.6"	2225	13.95	12.49	11.25	9.95

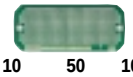
Die-Cast Aluminum Enclosures



High-quality die-cast aluminum cases come with channeled walls for easy PCB mounting. Ideal for RF circuits because the lid forms an effective screen against RFI interference. Made from aluminum, an excellent heat-sink, these cases are great for high temp circuits (up to 600°C). Complete with screws.

Part No.	Product No.	Size (L x W x D)	Weight (lbs.)	1	10	50	100
11957	B5002	3.9" x 2.0" x 1.0"	0.2	$4.49	$3.95	$3.49	$3.19
11965	B5004	4.7" x 2.4" x 1.6"	0.4	7.49	6.49	5.59	4.95
11973	B5006	7.5" x 4.3" x 2.4"	1.2	10.49	9.49	8.49	7.49

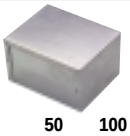
Printed Circuit Boards for Die Cast Aluminum Enclosures



• Power/ground, perimeter bus with pad per hole
• Plated one side holes

Part No.	Product No.	Size (L x W)	No. of Holes	1	10	50	100
105101	5002PCB	3.5" x 1.5"	365	$6.95	$6.25	$5.59	$4.95
105128	5004PCB	4.4" x 2.0"	669	7.95	6.95	6.25	5.59
105161	5006PCB	7.0" x 3.6"	2225	13.95	12.49	11.25	9.95

Aluminum Enclosures



Ideal boxes for those projects that get left lying around! Put them in an economical aluminum enclosure. The enclosure comes in two pieces which slide together.

Part No.	Product No.	Size (L x W x D)	Weight (lbs.)	1	10	50	100
11869	B2300	4.0" x 2.0" x 2.8"	0.2	$3.95	$3.49	$2.95	$2.49
11885	B2320	5.0" x 4.0" x 3.0"	0.4	5.95	4.95	4.49	3.95
11893	B2335	7.0" x 6.2" x 4.6"	0.8	7.95	6.95	6.25	5.59

Printed Circuit Boards for Aluminum Enclosures and Rubber Feet





• Power/ground, perimeter bus w/ pad per hole
• Plated one side holes

Part No.	Product No.	Size (L x W)	No. of Holes	1	10	50	100
105110	2300PCB	3.4" x 2.4"	637	$6.95	$6.25	$5.59	$4.95
105136	2320PCB	4.5" x 3.3"	1266	8.95	7.95	6.95	5.95
105179	2335PCB	6.5" x 5.0"	2829	13.95	12.49	11.25	9.95
119618	Adhesive blk rubber feet .493"Dia. x .14"H (4)			.99	.89	.79	.69

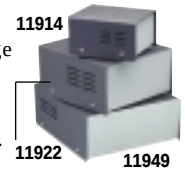
ABS Enclosures w/ Clear Tops



Made of a gray ABS plastic body with a clear polycarbonate top cover. Includes screws for mounting boards or electronic components, rubber gasket for a tight seal on your equipment and drilled holes for mounting.

Part No.	Product No.	Size (L x W x D)	Weight (lbs.)	1	10	50	100
141831	203C1	4.6" x 3.2" x 1.8"	0.3	$8.45	$7.55	$6.85	$5.75
141840	203D1	6.3" x 3.2" x 1.8"	0.4	8.95	7.95	6.95	5.95
141858	203F1	7.0" x 5.5" x 2.5"	0.8	9.95	8.95	7.95	6.95

Metal Enclosures



High-quality metal enclosures are made to suit a large variety of electronics projects and applications. The base is made of aluminum. Slots are located on the sides of the cases for maximum cooling. Cases screw together and come with an attractive two-tone finish.

• Mounting screws and rubber feet included

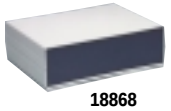
Part No.	Product No.	Size (L x W x D)	Weight (lbs.)	1	10	50	100
11914	B2741	4.0" x 3.3" x 2.2"	0.4	$5.25	$4.49	$4.25	$3.75
11922	B2743	5.9" x 5.3" x 3.0"	0.8	6.95	6.25	5.59	4.95
11949	B2744	7.3" x 6.3" x 2.8"	1.1	7.95	6.95	6.25	5.59

Printed Circuit Boards for Metal Enclosures

• Power/ground, perimeter bus with pad per hole • Plated one side holes

Part No.	Product No.	Size (L x W)	No. of Holes	1	10	50	100
105110	2741PCB	3.4" x 2.4"	637	$6.95	$6.25	$5.59	$4.95
105144	2743PCB	4.7" x 4.5"	1869	9.95	8.95	7.95	6.95
105179	2744PCB	6.5" x 5.0"	2829	13.95	12.49	11.25	9.95

Heavy-Duty Instrument Cases



Both cases split apart for ease of working. Four plastic feet molded on unit. P/N 18876 includes ventilation and speaker sound slots.

• Color: gray

Part No.	Product No.	Size (L x W x D)	Wt. (lbs.)	1	10	50	100
18868	H2505	7.9" x 6.3" x 2.5"	0.8	$6.49	$5.95	$5.49	$4.49
18876	H2507	10.0" x 7.5" x 3.1"	1.4	8.49	7.49	6.49	5.49

Printed Circuit Boards for Heavy-Duty Instrument Cases

• Power/ground, perimeter bus with pad per hole • Plated one side holes

Part No.	Product No.	Size (L x W)	Wt. (lbs.)	Holes	1	10	50	100
105179	2505PCB	6.5" x 5.0"	0.1	2829	$13.95	$12.49	$11.25	$9.95
105187	2507PCB	8.8" x 6.1"	0.2	4771	24.95	22.49	19.95	17.95

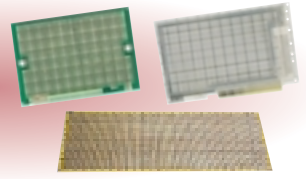
Mounting Hardware for Above PC Boards



• 4 spacers, 8 screws and 8 washers

Part No.	Description	1	10	50	100
106551	PC board mounting hardware	$1.59	$1.39	$1.29	$1.19

See page 98 for Proto PC Boards and Accessories!



FIBOX® NEMA 4X Plastic Enclosures



- Impact resistant
- Short term temperature range: -40˚C to 120˚C
- Continuous temperature range: -40˚C to 80˚C
- Color: gray
- Cover screw material: polyimide (PA)
- UL94-5V flammability rating

LG: low profile (1.0" body height)

Part Number	Product Number	Size (L" x W")	Height (in.) Body	Height (in.) Cover	Wt. (lbs.)	Pricing 1	Pricing 10	Pricing 100
191206	ULPC100/35LG	5.1 x 3.1	1.0	0.4	0.30	$19.95	$17.95	$15.95
191214	ULPC100/50LG	5.1 x 3.1	1.0	1.0	0.36	19.95	17.95	15.95
191185	ULPC125/35LG	5.1 x 5.1	1.0	0.4	0.46	23.95	21.49	18.95
191231	ULPC125/50LG	5.1 x 5.1	1.0	1.0	0.50	24.95	22.49	19.95
191661	ULPC150/35LG	7.1 x 5.1	1.0	0.4	0.60	29.95	26.95	23.95
191193	ULPC150/50LG	7.1 x 5.1	1.0	1.0	0.68	29.95	26.95	23.95

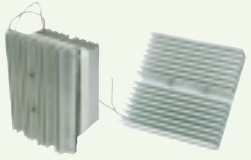
HG: high profile (2.0" body height)

Part Number	Product Number	Size (L" x W")	Height (in.) Body	Height (in.) Cover	Wt. (lbs.)	Pricing 1	Pricing 10	Pricing 100
191222	ULPC100/75HG	5.1 x 3.1	2.0	1.0	0.50	$19.95	$17.95	$15.95
191054	ULPC125/75HG	5.1 x 5.1	2.0	1.0	0.68	24.95	22.49	19.95
191679	ULPC150/75HG	7.1 x 5.1	2.0	1.0	0.88	29.95	26.95	23.95
191695	ULPC175/60HG	7.1 x 7.1	2.0	0.4	0.96	34.95	31.49	27.95
191708	ULPC175/75HG	7.1 x 7.1	2.0	1.0	1.04	34.95	31.49	27.95
191151	ULPC200/60HG	10.0 x 7.1	2.0	0.4	1.36	59.95	53.95	47.95
191716	ULPC200/75HG	10.0 x 7.1	2.0	1.0	1.34	59.95	53.95	47.95

Metal Back Panels

Part Number	Product Number	Description	Size (L" x W")	Wt. (lbs.)	Pricing 1	Pricing 10	Pricing 100
191724	MIV100	For ULPC100	3.9 x 1.9	0.10	$1.95	$1.78	$1.49
191169	MIV125	For ULPC125	3.9 x 3.9	0.24	2.29	1.95	1.75
191732	MIV150	For ULPC150	5.8 x 3.9	0.34	2.49	2.25	1.95
191741	MIV175	For ULPC175	5.8 x 5.8	0.54	2.95	2.65	2.39
191177	MIV200	For ULPC200	8.8 x 5.8	0.80	3.95	3.59	3.19

Thermoelectric Coolers with Heat Sink



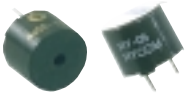
147942 131975

- **Removed from original equipment**
- Cools down to 45˚F
- Maximum heat sink operating temperature: 100˚C
- Heat or cool by changing direction of current
- Operating input voltage: 13-15VDC
- Input current: 4 amp nominal
- Rated lifetime over 200,000 hrs.
- Can operate from 12V car battery

For complete specs see page 89

Part No.	Description	Wt. (lbs.)	1	10
131975	Thermoelectric cooler, 1 heat sink	1.9	$27.95	$24.95
147942	Thermoelectric cooler, 2 heat sink	2.4	29.95	26.95

Single Tone Magnetic Buzzers



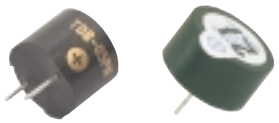
138739 106500

- Applications: counters, monitors, scanners, computers, peripheral equipment, fire and burglar alarms, and smoke detectors • Low power consumption
- High sound level and low input voltage • Long life
- Applied voltage: 1/2 duty, square wave

Part No.	Frequency (Hz @ dB)	Rated Voltage	Coil Resistance	Mounting Method	Size (D" x H")	1	10	100
138721	2048 @ 80	1.5V	50Ω	2 PC pins	.46 x .32	$.89	$.75	$.59
138739	2400 @ 85	5.0V	47Ω	2 PC pins	.46 x .35	.99	.79	.65
106500	3200 @ 80	1.5V	38Ω	2 PC pins	.48 x .40	.99	.89	.79

Piezo and Magnetic Buzzers

These single tone 2-pin devices have driver circuits so that they can easily be used by applying a DC voltage source. The clear and penetrating sound make these buzzers ideal for fire and burglar alarms, as well as smoke detectors.



76064 138712

Part No.	Operating Voltage (DC)	Frequency (kHz @ dB)	Type	Size (D" x H")	1	10	100	1000
76064	5V @ 30mA	2.3 @ 85	Magnetic	.57 x 0.4	$1.89	$1.65	$1.39	$.99
138712	12V @ 7mA	4.0 @ 80	Piezo	.54 x 0.3	1.89	1.65	1.39	.99

Ultrasonic Sensor Sets



136653

- Use for motion or distance sensing
- Frequency: 40kHz ±1.0kHz
- Aluminum case

136653: Transmit/Receive

- Capacitance: 2000pF ±30%
- Transmitter: bandwidth 4.0kHz/112dB, sound pressure level 119dB/40 ±1.0kHz
- Receiver: bandwidth 3.5kHz @ -71dB, min. sensitivity 65dB/40 ±1.0kHz (0dB vs 1V µbar) R=3.9kΩ
- Lead length/spacing: 0.39"
- Case size: 0.47"H x 0.62" Dia.



139491

139491: Transmit/Receive

- Capacitance: 2000pF ±20%
- Transmitter: bandwidth 5.0kHz/100dB, sound pressure level 112dB/40 ±1.0kHz
- Receiver: bandwidth 5.0kHz @ -75dB, min. sensitivity 67dB/40 ±1.0kHz (0dB vs 1V µbar) R=3.9kΩ
- Lead length/spacing: 0.28"
- Case size: 0.30"H x 0.43" Dia.

Part No.	Product No.	Description	1	10	50
136653	40TR16F	Sensor set	$6.25	$5.49	$4.95
139491	40TR12B	Sensor set	6.25	5.49	4.95

Communications Speaker with Magnetic Mount



- Freq. range: 200 - 18kHz
- Maximum input: 8 watt
- Impedance: 8Ω
- Black ABS case
- Size: 3.0"W x 2.0"D x 2.8"H
- Weight: 0.5 lbs.

Includes: 3' cord with 3.5mm male plug

Part No.	Product No.	Description	1	10
102031	CS3	Compact speaker	$7.95	$7.15

Single and Dual Tone Buzzers



32601

- Turns on and off with low power transistor, SCR or IC
- Frequency: 2900 ±300Hz
- Sound pressure: 80dB @ 2900Hz
- Power: 6-28VDC @ 15mA
- Solid-state – no moving parts
- Panel mounts in 1.25" round hole
- Black plastic case – includes mounting nut
- Size: 1.4"H x 1.7"Dia. • Color: black

32601: single tone constant audio output
123537: dual tone constant audio output or pulsed audio output (terminal selected)

Part No.	Product No.	Output Tone	1	10	100
32601	S3240	Single	$4.25	$3.75	$2.95
123537	D3240	Dual	3.49	2.95	2.49

Mini-Buzzers



24871

- Frequency range: 400Hz ±15%
- Sound ratio: 75-80dB
- 1.1" mounting hole spacing
- Color: black
- Wire leads: 4.5"L
- Size: 1.3"L x 0.7"W x 0.6"H
- Voltage range: 6-9VDC (P/N 24871); 9-15VDC (P/N 140695)

Part No.	Input Voltage	1	10	100
24871	9VDC @ 30mA	$1.75	$1.49	$1.25
140695	12VDC @ 25mA	1.49	1.29	1.09

Same business day shipping until 6:00 p.m. EST. See page 182 for Zone Chart



We Offer 99.7% Availability

Piezo Buzzer



- Single tone
- Sound pressure: 95dB @ 3500Hz
- Top mounting via mounting nut or base mounting via screw holes
- Rated: 1.5-28VDC @ 20mA
- 4.5" lead wires
- 1.35" mounting hole spacing
- Size: 1.0"H x 1.1"Dia.

Part No.	Description	1	10	100	1000
76021	Piezo buzzer	$2.95	$2.75	$2.49	$1.95

110VAC Piezo Buzzer



- Sound pressure level: 90dB
- Output tone: pulse
- Operating range: 60V – 150V
- Current drain: 20mA
- 6" lead wires
- Fits 1.125" diameter opening

Includes: Mounting nut

Part No.	Product No.	1	10	100
184743	FM-110A-903AL	$2.95	$2.75	$2.49

Electromechanical Buzzer



- Ideal for use in alarms and timers
- Sound pressure: 80dB
- Frequency: 500Hz
- Metal case
- Rated: 9VDC @ 220mA
- Fast-on terminals
- Size: 1.3"H x 2.0"Dia.

Part No.	Description	1	10	100	1000
105822	9V buzzer	$1.09	$.89	$.69	$.45

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

Round Ferrite Speakers

• Pre-tinned speaker lugs • Large magnet • Anodized metal surfaces • Braided copper voice coil leads • Paper diaphragm

For speaker wire, see page 90

Part Number	Product Number	Dimensions (Dia." x H")	Input Nom (W)	Input Max (W)	Impedance (Ω)	Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia." x H")	Net Wt. (lbs.)	Pricing 1	Pricing 10	Pricing 100
135589	FE200	2.0 x 0.7	.2	.4	8	83	420 – 5000	1.3 x 0.4	.08	$1.35	$1.15	$.79
10840	FE201	2.2 x 0.7	.2	.4	8	88	400 – 4500	1.3 x 0.4	.11	.99	.75	.55
177130	57RF07	2.2 x 0.8	.5	.9	45	88	500 – 8000	1.6 x 0.5	.2	.49	.43	.39
135714	FE202	2.6 x 0.8	.3	.5	8	88	340 – 4000	1.3 x 0.4	.13	1.25	.99	.75


135589 front


135589 back

Square Ferrite Speakers

• Pre-tinned speaker lugs • Large magnet • Anodized metal surfaces • Braided copper voice coil leads • Paper diaphragm

Part Number	Product Number	Dimensions (Dia." x H")	Input Nom (W)	Input Max (W)	Impedance (Ω)	Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia." x H")	Net Wt. (lbs.)	Pricing 1	Pricing 10	Pricing 100
135693	FEB200	2.0 x 0.7	.2	.3	8	82	500 – 6000	1.3 x 0.5	.12	$1.35	$1.09	$.85
31958	FEB216	2.6 x 0.8	.2	.4	16	85	330 – 8000	1.3 x 0.5	.14	1.95	1.65	1.39
99995	FEB204	2.6 x 0.9	3.0	4	4	95	300 – 14000	1.8 x 0.5	.29	2.19	1.85	1.59
171168	FEB450SP	4.2 x 1.5	1.0	2	8	90	300 – 14000	1.8 x 0.6	.37	1.95	1.75	1.25


99995 front


99995 back

Flat-Magnet, Square Piezo Speakers

• Excellent for alarms or other voice uses • Stainless steel diaphragm

Part Number	Product Number	Dimensions (Dia." x H")	Input Nom (W)	Input Max (W)	Impedance (Ω)	Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia." x H")	Net Wt. (lbs.)	Pricing 1	Pricing 10	Pricing 100
34024	AZ30S	1.2 x 0.2	.4	.8	8	70	1300-8000	1.2 x 0.1	.01	$1.49	$1.25	$.99
76030	AZ40S	1.6 x 0.2	.4	.8	8	70	600-6000	1.6 x 0.1	.02	1.95	1.75	1.49


76030 front


76030 back

Alnico Speakers

• For computer case use • Paper diaphragm • Wide frequency response • Pre-tinned solder lugs • Large magnet
• Impedance: 8Ω *189801: 10" lead wire

Part Number	Product Number	Fig.	Dimensions (Dia." x H")	Input Nom (W)	Input Max (W)	Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia." x H")	Net Wt. (lbs.)	Pricing 1	Pricing 10	Pricing 100
88410	A0200	1	2.0 x 0.8	.2	.4	87	430 – 4500	0.5 x 0.4.	09	$1.75	$1.49	$1.25
135765	A0201C	1	2.2 x 0.8	.3	.5	87	400 – 4000	0.5 x 0.4	.07	1.25	.93	.64
189801*	SP05W	1	2.2 x 0.8	.3	.5	87	400 – 4000	0.9 x 0.5	.10	1.19	.99	.75
135773	A0202C	1	2.6 x 0.9	.5	1.0	88	320 – 5000	0.5 x 0.4	.10	.85	.75	.68
185851	RF0305	1	3.0 x 0.9	.3	.5	87	400 – 4000	1.2 x 0.4	.10	1.35	1.09	.89
111587	B0102	2	1.7 x 0.6	.1	.3	83	500 – 5500	0.5 x 0.4	.05	1.95	1.75	1.25
135781	B0200	2	2.0 x 0.8	.2	.4	80	430 – 4000	0.5 x 0.4	.09	1.15	1.03	.92
135811	A1527C02	3	1.6 x 2.8 x 1.2	2.0	5.0	82	450 – 20000	0.5 x 0.5	.13	2.95	2.49	2.25

Fig. 1





Fig. 2





Fig. 3





Front Back

Samarium Cobalt Low Profile Speaker

• Round frame • Anodized metal surfaces • Ultra thin • Solder tabs • Paper diaphragm

Part Number	Product Number	Dimensions (Dia." x H")	Input Nom (W)	Input Max (W)	Impedance (Ω)	Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia." x H")	Net Wt. (lbs.)	Pricing 1	Pricing 10	Pricing 100
135626	MSC299	2.0 x 0.3	.3	.5	8	85	550 – 5000	0.5 x 0.6	.03	$3.25	$2.75	$2.25


Side


Back

1.2" (30mm) P.C. Mountable Speaker

• Round frame design • Ideal for PC board mounting • Mylar diaphragm • Solder leads

Part Number	Product Number	Dimensions (Dia." x H")	Input Nom (W)	Input Max (W)	Impedance (Ω)	Output SPL (dB)	Frequency Range (Hz)	Pin Spacing (mm)	Net Wt. (lbs.)	Pricing 1	Pricing 10	Pricing 100
135722	PCM41S	1.2 x 0.5	.150	.200	8	82	700 – 5000	15.0	.02	$2.15	$1.85	$1.39



Omnidirectional Electret Condenser Microphone Cartridges

SALE

Applications:
- Tape recorders, intercoms, hearing aids, telephone and answering devices, sonic controlled toys and sensors
- Modems for computers
- Used for recording, testing, and monitoring

116505



137437


Top


Bottom

175193



140986



Part No.	Type	Sensitivity	Impedance	Frequency (Hz)	Max. Op. Volt. (VDC)	Stand Op. Volt. (VDC)	Current (Max.)	Sensitivity Reduction	S/N Ratio	Terminals	Size (H x Dia.)	1	10	100	1000
189958	WM-034B	-38 ±3dB	>2.2kΩ	20-16,000	10V	4.5V	0.8mA	-3dB @ 3V	>60dB	PC pin leads	.27" x .38"	$.75	$.59	$.45	$.39
116505	WM-54PC	-44 ±2dB	>2.2kΩ	20-16,000	10V	2.5V	0.6mA	-3dB @ 2V	>60dB	PC pin leads	.20" x .38"	.75	.59	.49	.39
160979	WM-64PKT	-44 ±3dB	>2.2kΩ	20-16,000	10V	2.0V	0.5mA	-3dB @ 1.5V	>58dB	PC pin leads	.10" x .24"	.19	.17	.15	.13
137437	WM-62A	-45 ±4dB	>2.2kΩ	20-16,000	10V	2.0V	0.5mA	-3dB @ 1.5V	>58dB	Solder pad	.12" x .24"	.79	.65	.49	.45
175185	KUC7823	-51 ±2dB	22kΩ	150-8,000	12V	4.5V	0.5mA	-2dB @ 4V	>40dB	Solder term	.19" x .24"	.15	.12	.10	.08
136573	WM-60PC	-54 ±2dB	>2.2kΩ	20-12,000	12V	4.5V	0.5mA	-3dB @ 3V	>40dB	PC pin leads	.30" x .38"	.75	.59	.45	.39
140986	CRM919	-64 ±3dB	1kΩ ±30%	20-10,000	12V	3.0V	0.8mA	-3dB @ 3V	>40dB	PC pin leads	.90" x .39"	.99	.79	.65	.45
Microphone Bushing															
175193	KCU2054	Microphone bushing for P/N 175185 **(✻ 10 piece minimum)**									.16"L x .20"	✻	$.07	$.05	$.04

We specialize in Wall Transformers – Manufacturer and Product Number may vary – Call for additional OEM PRICING.


102234


100108


Female Male DIN

AC to AC Wall Transformers

- Input: 120VAC @ 60Hz
- Current rating up to 2.5A
- Meets safety agency requirements
- Plugs into standard 2-prong/3-prong 115V outlet
- See page 61 for wall transformer enclosures


10081


10102

We will change any power plug (see page 85) on any AC wall transformer listed (100 pcs. min.)

Part Number	Product Number	Output Rating Voltage	Output Rating Current	Output Plug ID x OD (mm) Plug Type	Dimensions (in.) (±10%) H	W	D	Case Color	DC Cord Length	Wt. (lbs.)	Agency Approvals	Pricing 1	10	50	100
101127	DFX10096B	7 VAC	1500 mA	2.5 mm x 5.5 mm female	1.88	2.20	1.95	Black	7' 6"	0.8	UL/CSA	$4.95	$4.49	$3.95	$3.25
163310	43-3003	9 VAC	50 mA	2.1 mm x 5.5 mm female	2.20	1.75	1.45	Black	6'	0.3	UL/CUL	1.49	1.15	.85	.59
184751	M/N40	9 VAC	450 mA	2.1 mm x 5.5 mm female	2.75	1.97	1.68	Black	6'	0.8	UL/CSA	3.95	2.95	2.49	1.95
100061	AC905F1	9 VAC	500 mA	2.1 mm x 5.5 mm female	2.35	1.95	1.56	Black	6'	0.6	UL/CUL	4.95	4.49	3.95	3.49
119204	A41090800	9 VAC	800 mA	2.1 mm x 5.5 mm female	2.55	1.91	1.74	Black	6'	0.6	UL	3.49	2.95	2.49	1.95
120141	AC908M3	9 VAC	800 mA	3.5 mm male	2.55	1.91	1.74	Black	6'	0.5	UL	4.95	4.49	3.95	3.25
102234	AC910F1	9 VAC	1000 mA	2.1 mm x 5.5 mm female	3.20	2.24	1.93	Black	6'	0.6	UL/CSA	5.95	5.35	4.79	4.29
157041	41A9-1000	9 VAC	1000 mA	2.5 mm x 5.5 mm female	2.06	2.12	1.63	Black	6'	0.6	UL/CSA	5.95	5.35	4.79	4.29
112336	AC915F5	9 VAC	1500 mA	2.5 mm x 5.5 mm female	2.50	2.20	1.96	Black	6'	0.9	UL	6.95	6.25	5.59	4.95
167089	N3511-1215-AC	12 VAC	150 mA	2.1 mm x 5.0 mm female	2.28	1.78	1.46	Black	6'	0.3	UL/CSA	1.95	1.75	1.49	1.25
101258	41A12-500	12 VAC	500 mA	2.1 mm x 5.5 mm female	2.76	1.97	1.60	Black	6'	0.6	UL/CSA	4.95	4.49	3.95	3.25
189202	A41A12-830	12 VAC	830 mA	2.1 mm x 5.5 mm female	2.03	2.09	1.62	Black	6'	0.7	UL/CSA	5.49	4.95	4.49	3.95
10081	AC1210F1	12 VAC	1000 mA	2.1 mm x 5.5 mm female	2.56	2.39	1.99	Black	6'	0.7	UL/CSA	5.95	5.35	4.79	4.29
100167	AC1210F5	12 VAC	1000 mA	2.5 mm x 5.5 mm female	3.20	2.41	2.00	Black	6'	0.7	UL/CSA	5.95	5.35	4.79	4.29
10428	AC1210M3	12 VAC	1000 mA	3.5 mm male	2.60	2.40	1.97	Black	6'	0.6	UL/CUL	5.49	4.95	4.49	3.95
167151	HET57116	12 VAC	1500 mA	2.1 mm x 5.5 mm female	3.36	2.68	2.15	Black	6'	1.5	—	6.95	6.25	5.59	4.95
153761	AC1216M3	12 VAC	1600 mA	3.5 mm male	2.50	2.21	1.92	Black	6'	0.9	UL	6.95	6.25	5.59	4.95
171408	AC1405F1	14 VAC	500 mA	2.1 mm x 5.5 mm female	2.76	1.97	1.60	Black	6'	0.6	UL/CSA	4.95	4.49	3.95	3.49
171854	DV1485AC	14 VAC	850 mA	2.5 mm x 5.5 mm right angle female	3.00	1.95	1.69	Black	6'	0.7	UL/CUL	3.95	2.95	2.49	1.95
190490	WP571616	16 VAC	1000 mA	2.1 mm x 5.5 mm female	3.30	2.70	2.20	Black	8'	1.0	UL/CSA	5.95	5.35	4.79	4.29
100108	AC1610F1	16 VAC	1000 mA	2.1 mm x 5.5 mm female	2.50	2.21	1.93	Black	6'	0.9	UL/CSA	6.95	6.25	5.59	4.95
163053	035-0165	16 VAC	1100 mA	2.5 mm x 5.5 mm female	3.20	2.30	1.80	Black	6'	1.1	UL/CSA	6.95	5.95	4.95	3.95
149551	15784903BF	16 VAC	2500 mA	5-pin DIN male connector (3-prong)	3.30	2.70	2.20	Black	6'	1.8	UL	5.95	5.35	4.79	3.95
121216	AC1810F1	18 VAC	1000 mA	2.1 mm x 5.5 mm female	3.11	2.36	1.85	Black	6'	1.1	UL/CUL	5.95	5.35	4.79	4.25
158123	AC1810M3	18 VAC	1000 mA	3.5 mm male	3.05	2.26	1.89	Black	6'	1.0	UL/CSA	6.95	6.25	5.59	4.95
185439	T5182200-A020G	18 VAC	1850 mA	2.1 mm x 5.5 mm right angle female	3.34	2.69	2.19	Black	6'	1.7	UL/CSA	6.95	5.95	4.95	3.95
87581	AC2405F1	24 VAC	500 mA	2.1 mm x 5.5 mm female	2.50	2.24	1.92	Black	6'	0.9	UL/CSA	6.95	6.25	5.59	4.95
140599	AC2410F1	24 VAC	1000 mA	2.1 mm x 5.5 mm female	3.00	2.20	1.90	Black	6'	1.2	UL/CSA	7.95	6.95	6.25	5.59
10102	AC2410M3	24 VAC	1000 mA	3.5 mm male	3.00	2.20	1.90	Black	6'	1.2	UL/CSA	7.95	6.95	6.25	5.59
176356	WP573024	24 VAC	1250 mA	2.1 mm x 5.5 mm female	3.36	2.67	2.20	Black	5'8"	1.6	UL/CSA	7.95	6.95	5.95	4.95

DC Wall Transformers

We specialize in Wall Transformers – Manufacturer and Product Number may vary – Call for additional OEM PRICING.


112070


164101


Stripped Female Male

AC to DC Wall Transformers

All Are Unregulated Unless Specified

- Input: 120VAC @ 60Hz
- Current rating up to 2.5A
- Meets safety agency requirements
- Plugs into standard 2-prong/3-prong 115V outlet
- See page 61 for wall transformer enclosures


155601


167142

We will change any power plug (page 85) on any DC wall transformer listed (100 pcs. min.)

Polarity 1 (+)—(•)—(−) (center negative) Polarity 2 (−)—(•)—(+) (center positive)

Part Number	Product Number	Output Rating Voltage	Output Rating Current	Output Plug ID x OD (mm) Plug Type / Polarity	Dimensions (in.) (±10%) H	W	D	Case Color	DC Cord Length	Wt. (lbs.)	Agency Approvals	Pricing 1	10	50	100
112070	DC502F5	5 VDC	225 mA	2.5 mm x 5.5 mm female **2**	1.90	2.20	1.95	Black	7'	0.3	UL/CSA	$4.95	$4.49	$3.95	$3.49
164101	DCR505F12	5 VDC	500 mA	2.1 mm x 5.5 mm female **2** **(regulated)**	2.76	2.02	1.59	Black	6'	0.6	—	6.95	6.25	5.59	4.95
155601	DC510F1	5 VDC	1000 mA	2.1 mm x 5.5 mm female **2**	2.58	1.96	1.71	Black	6'	0.7	UL/CSA	5.95	5.35	4.79	4.29
171301	JOD48U08	5 VDC	1000 mA	2.1 mm x 5.5 mm female **2** **(regulated)**	3.13	2.93	2.00	Black	6'	1.0	UL/CUL	6.95	5.95	5.25	4.49
167142	DCR510F12BG	5 VDC	1000 mA	2.1 mm x 5.5 mm female **2** **(regulated)**	1.05	1.77	2.15	Beige	6'	0.2	UL/CSA	8.95	7.95	6.95	6.25
155598	DC510F5	5 VDC	1000 mA	2.5 mm x 5.5 mm female **2**	2.58	1.95	1.71	Black	7' 4"	0.7	UL/CSA	5.95	5.35	4.79	4.25
168604	DCR510F5	5 VDC	1000 mA	2.5 mm x 5.5 mm female **2** **(regulated)**	3.30	2.20	1.92	Black	6'	1.2	UL/CSA	7.95	6.95	6.25	5.59
161664	EZAC1	5 VDC	1500 mA	2.5 mm x 5.5 mm right angle female **2**	2.67	1.73	1.21	Black	6'	0.4	UL/CSA	4.95	4.49	3.95	3.49
189190	EPA101MU-058	5 VDC	2000 mA	2.5 mm x 5.5 mm female **1** **(regulated)**	3.16	2.37	1.34	Black	6'	0.4	UL/CUL	9.95	8.95	7.65	6.25
161541	WA15050R	5 VDC	2500 mA	2.1 mm x 5.5 mm female **2** **(regulated)**	2.92	1.95	1.62	Black	6'	0.4	UL/CSA	14.95	13.49	11.95	10.95
190511	SADB-0885	6 VDC	200 mA	2.1 mm x 5.5 mm female **2** **(regulated)**	2.56	1.81	1.51	Black	6'	0.4	UL/CUL	4.49	3.95	3.55	3.19
119255	DC605F11	6 VDC	500 mA	2.1 mm x 5.5 mm female **1**	2.31	1.75	1.75	Black	6'	0.6	UL/CUL	4.95	4.49	3.95	3.49

DC Wall Transformers continued on pages 68 & 69

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

We specialize in Wall Transformers – Manufacturer and Product Number may vary – Call for additional OEM PRICING.


100845



100853



AC to DC Wall Transformers

All are unregulated unless specified

- Input: 120VAC @ 60Hz
- Current rating up to 2.5A
- Plugs into standard 2-prong/3-prong 115V outlet
- See page 61 for wall transformer enclosures

We will change any power plug (pg 85) on any DC wall transformer listed (100 pcs. min.)


100175


127976

Polarity 1 ⊕—●—⊖ (center negative) Polarity 2 ⊖—●—⊕ (center positive)

Part Number	Product Number	Output Rating Voltage	Output Rating Current	Output Plug ID x OD (mm) Plug Type / Polarity	Dimensions (in.)(±10%) H	W	D	Case Color	DC Cord Length	Wt. (lbs.)	Agency Approvals	Pricing 1	10	50	100
101266	DC605F12	6 VDC	500 mA	2.1 mm x 5.5 mm female **2**	2.44	1.89	1.61	Black	6'	0.4	UL/CSA	$4.95	$4.49	$3.95	$3.49
15544	DC605M3	6 VDC	500 mA	3.5 mm male **2**	2.44	1.89	1.61	Black	6'	0.4	UL/CSA	4.95	4.49	3.95	3.25
147707	DC608F1	6 VDC	800 mA	2.1 mm x 5.5 mm female **2**	2.33	1.98	1.62	Black	6'	0.6	UL/CSA	5.95	5.35	4.79	4.29
127511	DC810F1	8 VDC	1000 mA	2.1 mm x 5.5 mm female **2**	3.10	2.50	2.10	Black	6'	1.3	UL	6.95	6.25	5.59	4.95
134025	DC902F11	9 VDC	200 mA	2.1 mm x 5.5 mm female **1**	2.13	1.71	1.55	Black	6'	0.4	UL/CSA	4.25	3.79	3.39	3.09
100845	DC902F12	9 VDC	200 mA	2.1 mm x 5.5 mm female **2**	2.06	1.70	1.47	Black	6'	0.4	UL/CSA	4.25	3.79	3.39	3.09
170958	HKA0920EC	9 VDC	200 mA	2.1 mm x 5.5 mm female **2** **(230VAC input; European Plug)**	2.57	1.70	1.56	Black	6'	0.5	TUV/CE	1.49	1.25	.99	.75
128830	DC902F5	9 VDC	200 mA	2.5 mm x 5.5 mm female **2**	2.06	1.70	1.47	Black	6'	0.4	UL/CSA	3.95	3.55	3.19	2.85
100837	DIA3590	9 VDC	200 mA	3.5 mm male **2**	2.57	1.75	1.55	Black	6'	0.4	UL/CSA	4.25	3.79	3.39	2.95
190529	AD9123	9 VDC	250 mA	2.5 mm x 5.5 mm rt. angle **2** **(regulated)**	2.47	2.02	1.60	Black	12'	0.5	UL/CSA	4.25	3.79	3.39	3.09
191767	CTPS350903002C0	9 VDC	300 mA	1.3 mm x 5.5 mm right angle female **2**	2.29	1.77	1.47	Black	6'	0.4	UL/CSA	4.49	3.95	3.55	3.25
133891	DC903F1	9 VDC	300 mA	2.1 mm x 5.5 mm female **2**	2.00	1.50	1.50	Black	6'	0.4	UL/CSA	4.49	3.95	3.55	3.25
189237	35-9-300C	9 VDC	300 mA	2.5 mm x 5.5 mm female **2**	2.19	1.73	1.42	Black	6'	0.4	UL/CSA	4.49	3.95	3.55	3.25
169519	KX-TCA1	9 VDC	350 mA	2.1 mm x 5.5 mm right angle female **1**	2.72	1.70	1.55	Gray	6'	0.4	UL/CSA	4.49	3.95	3.55	3.25
140636	DC904F5	9 VDC	400 mA	2.5 mm x 5.5 mm female **2**	2.58	2.00	2.00	Black	6'	0.6	UL/CSA	4.49	3.95	3.55	3.25
163627	DC905F11	9 VDC	500 mA	2.1 mm x 5.5 mm female **1**	2.50	1.90	1.74	Black	6'	0.6	UL/CSA	4.95	4.49	3.95	3.49
170270	PQLV1	9 VDC	500 mA	2.1 mm x 5.5 mm right angle female **1**	2.68	1.90	1.75	Gray	6'	0.6	UL/CSA	4.95	4.49	3.95	3.25
100853	DC905F12	9 VDC	500 mA	2.1 mm x 5.5 mm female **2**	2.50	1.90	1.74	Black	6'	0.6	UL/CSA	4.95	4.49	3.95	3.49
147731	DC905F1BE	9 VDC	500 mA	2.1 mm x 5.5 mm female **2**	2.56	1.95	1.74	Beige	6'	0.6	UL/CSA	4.95	4.49	3.95	3.49
180540	FZ1729A	9 VDC	500 mA	2.5 mm x 5.5 mm right angle female **2**	2.41	1.17	1.57	Black	6'	0.4	UL/CSA	4.95	4.49	3.95	3.49
15561	DC905M3	9 VDC	500 mA	3.5 mm male **2**	2.50	1.95	1.56	Black	6'	0.5	UL/CSA	4.95	4.49	3.95	3.49
172654	B9-4103-13	9 VDC	600 mA	2.5 mm x 5.5 mm female **2** **(230VAC; Australian Plug)**	2.88	2.16	1.53	Black	6'	0.8	—	2.75	2.45	2.19	1.97
100175	DC906F5	9 VDC	600 mA	2.5 mm x 5.5 mm female **2**	2.50	1.90	1.75	Black	6'	0.6	UL/CSA	5.49	4.95	4.49	3.95
164929	48-9-900D	9 VDC	900 mA	2.1 mm x 5.5 mm female **1**	2.72	2.30	1.83	Black	6'	0.9	UL/CUL	5.49	4.81	4.07	3.43
100888	48-09-1000D	9 VDC	1000 mA	2.1 mm x 5.5 mm female **2**	2.58	2.39	1.97	Black	6'	1.0	UL/CSA	5.95	5.35	4.79	3.95
127503	DC910F5	9 VDC	1000 mA	2.5 mm x 5.5 mm female **2**	2.59	2.43	2.00	Black	6'	0.9	UL/CSA	5.95	5.35	4.79	4.29
15587	PAG1200	9 VDC	1000 mA	3.5 mm male **2**	2.59	2.43	2.00	Black	6'	0.9	UL/CSA	5.95	5.35	4.79	4.29
130526	500273	9 VDC	1200 mA	2.1 mm x 5.5 mm female **1**	2.40	2.00	1.80	Black	6'	1.0	UL/CSA	6.95	6.25	5.59	4.95
143693	DC915F1	9 VDC	1500 mA	2.1 mm x 5.5 mm female **2**	3.25	2.50	2.25	Black	6'	1.3	UL/CSA	9.95	8.95	7.95	6.95
161550	WA15090R	9 VDC	1670 mA	2.1 mm x 5.5 mm female **2** **(regulated)**	2.92	1.95	1.62	Black	6'	0.4	UL/CUL	13.95	12.49	11.25	9.95
163993	DC1202F11R	12 VDC	200 mA	2.1 mm x 5.5 mm right angle female **1**	2.38	1.70	1.63	Black	6'	0.4	UL/CSA	4.25	3.79	3.39	3.09
100095	DC1202F1	12 VDC	200 mA	2.1 mm x 5.5 mm female **2**	2.14	1.82	1.49	Black	6'	0.4	UL/CSA	4.25	3.79	3.39	3.09
158043	DC1202F12R	12 VDC	200 mA	2.1 mm x 5.5 mm right angle female **2**	2.19	1.65	1.50	Black	6'	0.4	UL/CSA	3.95	3.55	3.19	2.85
149340	351202002	12 VDC	200 mA	2.5 mm x 5.5 mm female **2**	2.52	1.73	1.50	Black	6'	0.4	UL/CSA	3.95	3.55	3.19	2.85
129322	DV1220DC	12 VDC	200 mA	2.5 mm x 5.5 mm right angle female **2**	2.20	1.70	1.50	Gray	6'	0.4	UL/CSA	2.95	2.49	2.25	1.95
185658	DV1220DCB	12 VDC	200 mA	2.5 mm x 5.5 mm right angle female **2**	2.15	1.68	1.49	Black	6'	0.4	UL/CSA	3.49	2.95	2.79	2.49
164283	HD1225	12 VDC	250 mA	Strip & tin w/ panel mount strain relief	2.18	1.69	1.49	Gray	6'	0.4	UL/CUL	2.49	1.95	1.75	1.49
163491	AD1230	12 VDC	300 mA	Cut, stripped and tinned	2.19	2.16	1.59	Black	6'	0.5	UL/CSA	3.49	2.95	2.79	2.49
127976	DC1203F12	12 VDC	300 mA	2.1 mm x 5.5 mm female **2**	2.60	1.80	1.60	Black	6'	0.7	UL/CSA	4.49	3.95	3.55	3.25
163504	AD1230CP	12 VDC	300 mA	2.1 mm x 5.5 mm female **2**	2.19	2.13	1.59	Beige	6'	0.6	UL/CSA	3.95	3.55	3.19	2.85
169130	LSA1974ADT	12 VDC	300 mA	2.5 mm x 5.5 mm female **1**	2.60	1.95	1.76	Beige	6'	0.5	UL/CSA	1.95	1.75	1.49	1.25
190043	41-2-15	12 VDC	300 mA	2.5 mm 5.5 mm female **2**	2.90	2.00	1.55	Black	6'	0.5	UL/CSA	3.95	3.55	3.19	2.85
147926	AD212	12 VDC	400 mA	2.1 mm x 5.5 mm female **2**	2.59	1.96	1.67	Black	6'	0.5	UL/CSA	3.95	3.55	3.19	2.85
190502	DV1140DC	12 VDC	400 mA	2.1 mm x 5.5 mm right angle female **2**	2.60	2.12	1.85	Black	6'	0.5	UL/CUL	4.49	3.95	3.55	3.19
114825	DC1205ST	12 VDC	500 mA	Cut, stripped and tinned	2.52	2.02	1.65	Black	6'	0.6	CUL	4.25	3.79	3.25	2.95
15368	DC1205F11	12 VDC	500 mA	2.1 mm x 5.5 mm female **1**	2.50	1.90	1.57	Black	6'	0.6	UL, CSA	4.95	4.49	3.95	3.49
170296	DC1205F11RG	12 VDC	500 mA	2.1 mm x 5.5 mm right angle female **1**	2.58	1.99	1.65	Dark Gray	6'	0.6	UL, CSA	4.95	4.49	3.95	3.49
102496	DC1205F12	12 VDC	500 mA	2.1 mm x 5.5 mm female **2**	2.50	1.90	1.57	Black	6'	0.6	UL, CSA	4.95	4.49	3.95	3.49
131300	SCP41	12 VDC	500 mA	2.1 mm x 5.5 mm right angle female **2**	2.60	1.90	1.74	Beige	6'	0.6	UL, CSA	4.95	4.49	3.95	3.49
162996	DCR1205F12	12 VDC	500 mA	2.1 mm x 5.5 mm female **2** **(regulated)**	3.17	2.20	1.91	Black	6'	0.9	—	7.95	6.95	6.25	5.59
102277	DC1205F5	12 VDC	500 mA	2.5 mm x 5.5 mm female **2**	2.50	2.08	1.68	Black	6'	0.6	UL, CSA	4.95	4.49	3.95	3.49
17267	DC1205M3	12 VDC	500 mA	3.5 mm male **2**	2.50	1.90	1.57	Black	6'	0.6	UL, CSA	4.95	4.49	3.95	3.49
189974	SPN4204A	12 VDC	800 mA	3.1 mm x 6.2 mm right angle female **2**	2.50	2.36	1.93	Black	6'	1.0	UL/CSA	5.95	5.35	4.79	4.29
117479	DC1208F1	12 VDC	800 mA	2.1 mm x 5.5 mm female **2**	2.99	2.28	1.95	Black	6'	0.9	UL, CSA	5.95	5.35	4.79	4.29
181711	48D12800B	12 VDC	800 mA	2.1 mm x 5.5 mm female **2** **(240 VAC input; UK Plug)**	3.18	2.17	2.18	Black	6'	1.1	CE, TUV	5.95	4.95	4.49	3.95
129331	48-12-800	12 VDC	800 mA	2.5 mm x 5.5 mm female **2**	2.99	2.28	1.95	Black	6'	0.9	UL, CSA	5.95	5.35	4.79	4.29

DC Wall Transformers continued on page 67 & 69

We specialize in Wall Transformers – Manufacturer and Product Number may vary – Call for additional OEM PRICING.


105478


15392


Stripped Female Male

AC to DC Wall Transformers

All are unregulated unless specified

- Input: 120VAC @ 60Hz
- Current rating up to 2.5A
- Plugs into standard 2-prong/3-prong 115V outlet
- See page 61 for wall transformer enclosures


123932


123158

We will change any power plug (page 85) on any DC wall transformer listed (100 pcs. min.)

Polarity 1 (+)—(•)—(−) **(center negative)** **Polarity 2** (−)—(•)—(+) **(center positive)**

Part Number	Product Number	Output Rating		Output Plug	Dimensions (in.)(±10)			Case	DC Cord	Wt.	Agency	Pricing			
		Voltage	Current	ID x OD (mm) Plug Type / Polarity	H	W	D	Color	Length	(lbs.)	Approvals	1	10	50	100
121232	AW10D1GA	12 VDC	800 mA	3.5 mm male **2**	2.57	2.40	1.95	Black	6'	0.9	UL, CSA	**$5.95**	**$5.35**	**$4.79**	**$4.29**
100870	DC1210F1	12 VDC	1000 mA	2.1 mm x 5.5 mm female **2**	2.58	2.39	1.97	Black	6'	0.9	UL, CSA	**6.95**	**6.25**	**5.59**	**4.95**
170245	DCR1210F12	12 VDC	1000 mA	2.1 mm x 5.5 mm female **2** **(regulated)**	3.20	2.26	1.97	Black	6'	1.2	—	**9.95**	**8.95**	**7.95**	**6.95**
105478	DC1210F5	12 VDC	1000 mA	2.5 mm x 5.5 mm female **2**	2.58	2.39	1.97	Black	6'	1.0	UL/CSA	**6.95**	**6.25**	**5.59**	**4.95**
189579	BCU12100	12 VDC	1000 mA	2.5 mm x 5.5 mm right angle female **2**	3.20	2.19	1.93	Black	6'	1.0	UL/CSA	**6.95**	**6.25**	**5.59**	**4.95**
15392	DC1210M3	12 VDC	1000 mA	3.5 mm male **2**	2.58	2.39	1.97	Black	6'	1.0	UL/CSA	**6.95**	**6.25**	**5.59**	**4.95**
161533	WA15-120R	12 VDC	1250 mA	2.1 mm x 5.5 mm female **2** **(regulated)**	2.92	1.95	1.62	Black	6'	0.4	UL/CSA	**13.95**	**12.49**	**11.25**	**9.95**
183433	WA15-120	12 VDC	1250 mA	2.5 mm x 5.5 mm female **2** **(regulated)**	2.97	1.60	2.47	Black	6'	0.4	UL/CUL	**13.95**	**12.49**	**11.25**	**9.95**
191353	ADP-15FB	12 VDC	1250 mA	2.5 mm x 5.5 mm female **2** **(regulated)**	3.48	2.23	1.20	Black	10' (clear)	0.4	UL/CUL	**13.95**	**12.49**	**11.25**	**9.95**
189325	57D12-1500	12 VDC	1500 mA	Cut, stripped and tinned **2** (w/ on-off switch)	3.40	2.60	2.20	Black	8'	1.5	UL	**9.95**	**8.95**	**7.95**	**6.95**
136881	DC1215F1	12 VDC	1500 mA	2.1 mm x 5.5 mm female **2**	3.40	2.70	2.20	Black	6'	1.5	UL	**10.95**	**9.95**	**8.95**	**7.95**
101291	DC1215F5	12 VDC	1500 mA	2.5 mm x 5.5 mm female **2**	3.40	2.70	2.20	Black	6'	1.5	UL	**10.95**	**9.95**	**8.95**	**7.95**
129314	DV-1250	14 VDC	360 mA	2.5 mm x 5.5 mm right angle female **2**	2.34	1.98	1.60	Black	6'	0.6	UL/CSA	**3.49**	**2.95**	**2.49**	**1.95**
123932	DC1407F1	14 VDC	700 mA	2.1 mm x 5.5 mm female **2**	2.58	2.39	1.97	Black	6'	1.0	UL/CSA	**6.95**	**6.25**	**5.59**	**4.95**
170253	AEC4814B	14 VDC	730 mA	2.1 mm x 5.5 mm female **2** (3 AC prong)	2.79	1.80	1.49	Black	6'	1.1	UL/CSA	**1.95**	**1.59**	**1.29**	**.99**
153779	DC-10-06	15 VDC	300 mA	2.5 mm x 5.5 mm female **2**	2.44	1.90	1.60	Black	9'	0.7	UL/CSA	**4.95**	**4.49**	**3.95**	**3.49**
190001	DC1505F1	15 VDC	500 mA	2.1 mm x 5.5 mm female **2**	2.30	2.35	1.90	Black	6'	0.8	UL/CSA	**5.95**	**5.35**	**4.79**	**4.29**
189982	DC1505F5	15 VDC	500 mA	2.5 mm x 5.5 mm female **2**	2.30	2.35	1.90	Black	6'	0.8	UL/CSA	**5.95**	**5.35**	**4.79**	**4.29**
155803	DC1506F11	15 VDC	600 mA	2.1 mm x 5.5 mm female **1**	2.90	2.33	1.90	Black	6'	1.0	UL/CSA	**6.95**	**6.25**	**5.59**	**4.95**
181702	48D15800	15 VDC	800 mA	Cut, stripped and tinned	3.23	2.25	1.98	Black	6'	1.0	UL/CSA	**4.95**	**3.95**	**3.49**	**2.95**
163782	481509003C0	15 VDC	900 mA	2.1 mm x 5.5 mm female **2**	2.50	2.21	1.92	Black	6'	0.8	UL/CSA	**7.95**	**6.95**	**6.25**	**5.59**
151992	AD-SS-2	15 VDC	1000 mA	2.1 mm x 5.5 mm female **1**	3.72	2.56	2.17	Beige	6'	1.5	UL/CSA	**7.95**	**6.95**	**6.25**	**5.59**
191652	DC1510F12	15 VDC	1000 mA	2.1 mm x 5.5 mm female **2**	3.26	2.20	1.90	Black	6'	1.0	UL/CSA	**7.95**	**6.95**	**6.25**	**5.59**
169391	WA15-150	15 VDC	1000 mA	2.1 mm x 5.5mm female **2** **(regulated)**	2.90	1.90	1.60	Black	6'	0.5	UL/CUL	**12.95**	**11.49**	**10.49**	**9.49**
162317	DC1605F1	16 VDC	500 mA	2.1 mm x 5.5 mm female **2**	2.23	2.35	1.90	Black	6'	0.8	UL/CSA	**5.95**	**4.82**	**4.07**	**3.43**
181729	CXV18250	18 VDC	250 mA	2.1 mm x 5.5 mm female **2**	2.61	2.04	1.60	Black	6'	0.6	UL	**2.95**	**2.49**	**1.95**	**1.75**
163272	48-18-500D	18 VDC	500 mA	2.1 mm x 5.5 mm female **2**	2.61	2.30	1.85	Black	6'	0.8	UL/CUL	**6.95**	**5.95**	**5.35**	**4.79**
168487	KWM020188	18 VDC	1000 mA	2.1 mm x 5.5 mm female **2** **(regulated)**	2.91	1.94	1.62	Black	6'	0.4	UL/CUL	**14.95**	**13.49**	**11.95**	**10.95**
102285	DC2404F1	24 VDC	400 mA	2.1 mm x 5.5 mm female **2**	3.00	2.30	2.00	Black	6'	0.9	UL/CUL	**6.95**	**6.25**	**5.59**	**4.95**
163635	DC2405F11	24 VDC	500 mA	2.1 mm x 5.5 mm female **1**	3.12	2.34	1.90	Black	6'	1.0	UL/CUL	**6.95**	**6.25**	**5.59**	**4.95**
174861	DCR2405F12	24 VDC	500 mA	2.1 mm x 5.5 mm female **2** **(regulated)**	3.35	2.68	2.16	Black	6'	1.3	—	**7.95**	**6.95**	**6.25**	**5.59**
191556	DC2405F5	24 VDC	500 mA	2.5 mm x 5.5 mm female **2**	3.12	2.34	1.90	Black	6'	1.0	UL/CUL	**6.95**	**6.25**	**5.59**	**4.95**
174879	DCR2405F52	24 VDC	500 mA	2.5 mm x 5.5 mm female **2** **(regulated)**	3.35	2.68	2.16	Black	6'	1.3	—	**7.95**	**6.95**	**5.95**	**5.35**
139088	DC2405M3	24 VDC	500 mA	3.5 mm male **2**	3.12	2.34	1.90	Black	6'	1.0	UL/CUL	**6.95**	**6.25**	**5.59**	**4.95**
167118	BC2424HP	24 VDC	750 mA	2.1 mm x 5.5 mm female **2**	3.34	2.67	2.20	Beige	6'	1.0	UL/CSA	**6.95**	**5.95**	**5.35**	**4.79**
168495	DC2408F1	24 VDC	800 mA	2.1 mm x 5.5 mm female **2**	2.91	1.94	1.62	Black	6'	0.4	UL/CUL/TUV	**8.95**	**7.95**	**6.95**	**6.25**
163651	DC2412F11	24 VDC	1200 mA	2.1 mm x 5.5 mm female **1**	3.84	3.01	2.56	Black	6'	2.0	—	**10.95**	**9.95**	**8.95**	**7.95**
163643	DC242F12	24 VDC	1200 mA	2.1 mm x 5.5 mm female **2**	3.84	3.01	2.56	Black	6'	2.0	—	**10.95**	**9.95**	**8.95**	**7.95**
117321	DC2412F5	24 VDC	1200 mA	2.5 mm x 5.5 mm female **2**	3.84	3.01	2.56	Black	6'	2.0	—	**10.95**	**9.95**	**8.95**	**7.95**
121241	DC2412M3	24 VDC	1200 mA	3.5 mm male **2**	3.37	2.70	2.22	Black	6'	2.0	—	**10.95**	**9.95**	**8.95**	**7.95**
160258	13A3546	30 VDC	500 mA	2.5 mm x 5.0 mm female **2**	3.62	2.45	2.04	Black	6'	1.5	UL/CSA	**7.95**	**6.95**	**6.25**	**5.59**
15309	DCM05	3, 4.5, 6, 7.5, 9, 12VDC	500 mA	1.35 x 3.5, 2.1 x 5.0, 2.5 x 5.5 **female** 2.5, 3.5 **male**, 9V battery snap (LED ind.)	2.98	2.15	2.10	Black	6'	0.7	UL/CSA	**7.95**	**6.95**	**6.25**	**5.59**
190641	DCM08	3, 4.5, 6, 7.5, 9, 12VDC	800 mA	1.5 x 5.5, 2.1 x 5.0, 2.1 x 5.5, 2.5 x 5.5 **fem** 2.5, 3.5 **male**, polarity sw. (LED ind.)	3.87	2.65	2.29	Black	6'	0.9	UL/CSA	**8.95**	**7.95**	**6.95**	**6.25**
123158	DCM10	1.5, 3, 4.5, 6, 7.5, 9, 12VDC	1000 mA	1.35 x 3.5, 2.1 x 5.0, 2.5 x 5.5 **female** 2.5, 3.5 **male**, 9V battery snap (LED ind.)	3.71	2.22	2.50	Black	6'	0.9	120 or 220VAC	**8.95**	**7.95**	**6.95**	**6.25**

DC Wall Transformers continued from two previous pages

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AC/DC Table-Top Power Supplies

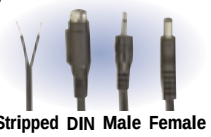
- Regulated and nonregulated outputs (see output plugs)
- Input voltage: 100-240VAC @ 50/60Hz

† **120VAC input**

* See accessory table-top power cord chart below when AC cord needed

** P/N 173593: has on/off switch


Power cords – see below


Stripped DIN Male Female


155205


136565


139096

Polarity 1 (center negative) Polarity 2 (center positive)

Part Number	Product Number	Output			Output Plug	Power		Size	Cord*	Wt.	Agency	Pricing			
		Volts (VDC)	Current (A)	Watts (W)	ID x OD/Plug Type/Polarity	Indicator	Color	(L" x W" x H")	(DC/AC)	(lbs.)	Approvals	1	10	50	100
161568	MA15-050R	5	2.5	15	2.1mm x 5.5mm female **2 (regulated)**	No	Black	3.3 x 2.0 x 1.3	4'/6'	0.4	UL/CSA/TUV	$19.95	$17.95	$15.95	$13.95
172777	AD740U	5	4.0	20	2.1mm x 5.5mm female **2 (regulated)**	Yes	Black	4.1 x 2.6 x 1.6	4'/[2]	1.4	UL/CUL/TUV/CE	19.95	17.95	15.95	13.95
155205	KA52A	5	4.0	20	2.1mm x 5.5mm female **2 (regulated)**	No	Black	4.1 x 2.6 x 1.6	6'/6'	1.2	UL/CSA/TUV	29.95	26.95	24.95	22.95
169121	AD740U1050	5	4.0	20	2.5mm x 5.5mm female **2 (regulated)**	Yes	Black	4.1 x 2.6 x 1.6	4'/[2]	1.4	UL/CUL/TUV/CE	24.95	22.49	19.95	17.95
190051	APS48EA114	7	1.5	10	2.5mm x 5.5mm female **2**	No	Black	3.4 x 2.3 x 1.9	6'/6'	1.9	UL/CUL	9.95	8.95	7.95	6.95
189245	APA45107-5PL09	7.5	6.0	45	2.1mm x 5.5mm female **2 (regulated)**	Yes	Black	3.9 x 2.5 x 1.2	6'/[3]	0.7	UL/CUL/TUV/CE	19.95	17.95	15.95	13.95
170341	UP02511091	9	0.3	3	2.1mm x 5.5mm female **2 (regulated)**	No	Black	4.3 x 2.7 x 1.5	6'/[2]	0.6	UL/CSA/TUV	14.95	13.49	11.95	10.95
173577	UPS20109P	9	2.3	21	2.5mm x 5.5mm female **2 (regulated)**	Yes	Beige	5.7 x 2.9 x 1.7	4'/[1]	0.9	UL/CSA/TUV	24.95	22.49	19.95	17.95
136565	DDC1210P†	12	1.0	12	Stripped & Tinned	No	Black	3.2 x 2.2 x 1.9	6'/6'	1.2	—	9.95	8.95	7.95	6.95
161576	MA15-120R	12	1.25	15	2.1mm x 5.5mm female **2 (regulated)**	No	Black	3.3 x 2.0 x 1.3	4'/6'	0.4	UL/CSA/TUV	22.95	19.95	17.95	15.95
140880	DC1215ST†	12	1.5	18	Stripped & Tinned	No	Black	3.1 x 2.1 x 1.9	6'/6'	1.5	UL	10.95	9.95	8.95	7.95
183054	SPU24-3	12	1.5	18	2.5mm x 5.5mm female **2 (regulated)**	Yes	Black	4.2 x 2.6 x 1.2	6'/[2]	0.5	UL/CUL/TUV/CE	22.95	19.95	16.95	14.95
157956	PS571812D†	12	1.5	18	2.5mm x 5.5mm female **2**	No	Black	3.4 x 2.7 x 2.2	6'/6'	2.0	UL	10.95	9.95	8.95	7.95
143714	DC1220F1†	12	2.0	24	2.1mm x 5.5mm female **2**	No	Black	3.8 x 2.8 x 2.3	6'/6'	2.2	—	12.95	11.49	10.49	9.49
143722	DC1220F5†	12	2.0	24	2.5mm x 5.5mm female **2**	No	Black	3.8 x 2.8 x 2.3	6'/6'	2.2	—	12.95	11.49	10.49	9.49
143731	DC1220M3†	12	2.0	24	3.5mm male **2**	No	Black	3.8 x 2.8 x 2.3	6'/6'	1.9	—	12.95	11.49	10.49	9.49
191901	CUP36-12	12	2.5	30	2.5mm x 5.5mm rt agle fem **2 (regltd)**	No	Black	4.4 x 2.0 x 0.8	4'/[3]	0.7	UL/CSA/TUV/CE	22.95	19.95	17.95	15.95
191142	DC1225F1	12	2.5	30	2.1mm x 5.5mm female **2 (regulated)**	No	Black	3.7 x 2.2 x 1.2	6'/[3]	2.0	UL/CSA/TUV	24.95	22.49	19.95	17.95
155213	P40A-3P2JU	12	3.3	40	2.1mm x 5.5mm female **2 (regulated)**	Yes	Black	5.5 x 2.3 x 1.5	6'/6'	0.7	UL/CUL/TUV	29.95	26.95	24.95	22.95
155230	SPU50-3	12	5.0	60	2.1mm x 5.5mm female **2 (regulated)**	Yes	Black	5.6 x 2.9 x 1.5	6'/6'	1.3	UL/CSA/TUV	49.95	44.95	39.95	35.95
189659	STLN4123B	14	0.83	11	2.1mm x 5.5mm female **2**	No	Beige	3.4 x 2.5 x 2.1	8'6"/6'	1.8	UL/CUL	12.95	11.49	10.49	9.49
174975	SPU24-4	15	1.6	22	2.1mm x 5.5mm female **2 (regulated)**	Yes	Black	4.1 x 2.5 x 1.2	6'/6'	0.6	UL/CSA/TUV/CE	29.95	26.95	24.95	22.95
189739	PSA-152	15	2.0	30	2.5mm x 5.5mm female **2**	No	Black	5.8 x 2.9 x 1.6	3'/[2]	1.6	UL/CSA/CE	19.95	17.95	15.95	13.95
173593	UPS30215P**	15	2.0	30	2.5mm x 5.5mm female **2 (regulated)**	Switch	Black	6.8 x 4.3 x 2.2	6'/[2]	1.2	UL/CSA/TUV	29.95	26.95	24.95	22.95
190609	PSA171	17	1.75	30	2.1mm x 5.5 mm female **2 (regulated)**	Yes	Black	5.8 x 2.9 x 1.7	3'4"	0.9	UL/CSA/TUV	19.95	17.95	15.95	13.95
191898	A81807DM+	18	0.7	12.6	2.1mm x 5.5mm female **1**	No	Black	4.2 x 3.1 x 2.5	6'/6'	2.6	—	19.95	17.95	15.95	13.95
174983	SPU41-5	18	2.2	40	2.1mm x 5.5mm female **2 (regulated)**	Yes	Black	5.6 x 2.9 x 1.6	6'/6'	1.1	UL/CUL/TUV/CE	39.95	35.95	32.95	29.95
169076	808050-00	20	2.5	50	2.5mm x 5.5mm female **2 (regulated)**	Yes	Black	6.7 x 3.3 x 2.3	6'/[2]	1.4	UL/CSA/TUV	24.95	22.49	19.95	17.95
174844	DCR2410F12†	24	1.0	24	2.1mm x 5.5mm female **2 (regulated)**	No	Black	4.4 x 3.0 x 2.5	6'/6'	2.6	—	14.95	13.49	11.95	10.95
174852	DCR2410F52†	24	1.0	24	2.5mm x 5.5mm female **2 (regulated)**	No	Black	4.4 x 3.0 x 2.5	6'/6'	2.7	—	14.95	13.49	11.95	10.95
139096	DC2412F1†	24	1.2	29	2.1mm x 5.5mm female **2**	No	Black	4.4 x 3.1 x 2.6	6'/6'	2.5	—	14.95	13.49	11.95	10.95
181884	P40A6P2J	24	1.66	40	2.1mm x 5.5mm female **2 (regulated)**	Yes	Black	4.1 x 2.6 x 1.4	6'/6'	0.7	UL/TUV/CE	29.95	26.95	24.95	22.95
161605	SPU50-6	24	2.5	60	2.1mm x 5.5mm female **2 (regulated)**	Yes	Black	5.6 x 2.9 x 1.6	1'9"/6'	1.3	UL/CSA/TUV	44.95	39.95	35.95	32.95
172216	HPC2108A	30	0.40	12	3.0mm x 6.5mm female **1** 220VAC input India/South Africa	No	Black	3.5 x 2.6 x 2.1	5'/3'	1.7	—	3.95	3.55	3.19	2.85
173665	DND-3005	30	0.5	15	2.5mm x 5.5mm female **2 (regulated)**	No	Black	8.3 x 2.5 x 2.2	5'9"/3'2"	1.4	UL/CUL	9.95	8.95	7.95	6.95
172064	SPU50-9	48	1.25	50	2.1mm x 5.5mm female **2 (regulated)**	Yes	Black	5.6 x 2.9 x 1.7	6'/6'	1.3	UL/CSA/TUV	49.95	44.95	39.95	35.95


38050

* Accessory Power Input Cords for Table-Top Power Supplies (see page 94 for International Power Cords)


189587

Note: When required for above power supplies, the reference number for appropriate power cord is listed in the Cord (DC/AC) column above

Part Number	Reference Number	Description	Color	AWG	Cord Type	Cord Length	Weight (lbs.)	Agency Approvals	Pricing		
									1	10	100
38041	1	3-conductor detachable power supply cord	Beige	18/3	SVT	6'	0.4	UL/CSA	$3.49	$2.95	$2.49
38050	2	3-conductor detachable power supply cord	Black	18/3	SVT	6'	0.4	UL/CSA	3.75	3.25	2.75
189587	3	2-conductor detachable power cord for 189245/191142/191898	Black	18/2	SPT	6'	0.3	UL/CSA	2.95	2.65	2.65

AC/AC Table-Top Step-Down Transformers

SALE

- Input voltage: 120VAC @ 60Hz
- Attached AC cord

120VAC input; 5A @ 250V fuse

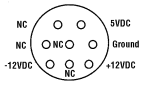
Part Number	Product Number	Output			Output Plug	Power		Size	Cord	Wt.	Agency	Pricing			
		Volts (VAC)	Current (A)	Watts (W)	ID x OD Plug Type	Indicator	Color	(L" x W" x H")	(AC/AC)	(lbs.)	Approvals	1	10	50	100
176348	LTCA054#	14	4.0	56	2.1mm x 5.5mm female	No	Black	4.1 x 3.1 x 2.4	5'8"/5'8"	2.7	UL/CUL	$6.95	$6.25	$5.59	$4.95
176604	TA661640#	16	4.0	64	2.1mm x 5.5mm female	No	Black	3.7 x 2.9 x 2.5	6'/6'	2.8	CSA	14.95	13.49	11.95	10.95
174220	PS571418CG	18	0.75	13	4-pin mini DIN male connector	No	Black	3.3 x 2.6 x 2.2	5'6"/6'	2.2	UL	1.75	1.55	1.39	1.25
147310	0931RB	24	0.70	17	3-pin (0.156") female housing	No	Black	3.2 x 2.2 x 1.9	6'/6'	1.1	UL	4.95	4.49	3.95	3.25
152135	100380-001	24	1.46	35	2.1mm x 5.5mm female	No	Black	3.6 x 2.7 x 2.1	3'5"/5'6"	1.9	UL/CSA	7.95	6.95	5.95	4.95

See pages 76-77 for more Mean Well Power Supplies – Mean Well is an ISO-9002 Certified Company

MOTOROLA 5.6 Watt Linear Wall Regulated DC Power Supply



- **Output voltage:**
  +5VDC @ 500mA
  +12VDC @ 130mA
  -12VDC @ 130mA
- Input voltage: 120VAC @ 60Hz
- Input conn.: 3-prong AC wall plug
- Size: 2.9"L x 2.6"W x 1.9"H
- Weight: 1.2 lbs.

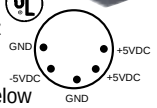


Part No.	Product No.	1	10	50	100
154624	5712-305-4C3E	**$7.95**	**$6.95**	**$6.25**	**$4.95**

SKYNET 8 Watt Table-Top DC Power Supply



- **Output voltage:**
  +5VDC @ 1.5A, -5VDC @ 0.1A
- Input voltage: 115/230 @ 50/60Hz
- Input connector:
  3-prong input power receptacle
- Power supply cord: P/N 38050, below
- Mating output connector: P/N 15843, pg 50
- Size: 5.5"L x 2.9"W x 1.5"H • Weight: 1.1 lbs.

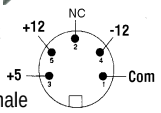


Part No.	Product No.	1	10	50	100
153752	LVT-T022	**$9.95**	**$8.95**	**$7.95**	**$6.95**

JAMECO 9 Watt Linear Table-Top DC Power Supply



- **Output voltage:**
  +5VDC @ 0.6A
  +12VDC @ 0.25A
  -12VDC @ 0.25A
- Input voltage:120VAC @ 50/60Hz
- Input connector: 120VAC
  2-prong 6' cord
- Mating output connector: 5-pin male
  DIN 6' cord P/N 15843 or 29399, pg 50
- Size: 4.8"L x 3.1"W x 2.5"H • Weight: 2.3 lbs.

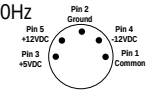


Part No.	Product No.	1	10	50	100
103173	JE9100	**$19.95**	**$17.95**	**$15.95**	**$14.95**

MEAN WELL 21 Watt Table-Top DC Power Supply



- **Output voltage:**
  +5VDC @ 2.5A
  +12VDC @ 0.8A
  -12VDC @ 0.3A
- Input voltage: 100/250VAC @ 50-60Hz
- Input: 6' power cord (included)
- Output connector: male 5-pin DIN
  connector with 5' long cable
- Mating output connector: P/N 15843, pg 50
- Size: 4.1"L x 2.6"W x 1.4"H • Weight: 1.1 lbs.

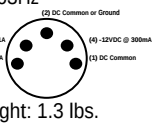


Part No.	Product No.	1	10	25	100
190959	P25A13D	**$39.95**	**$35.95**	**$32.49**	**$28.95**

MEAN WELL 40.6 Watt Table-Top Regulated DC Power Supply



- **Output voltage:**
  +5VDC @ 5A
  +12VDC @ 1A
  -12VDC @ 0.3A
- Input voltage: 100/240VAC @ 47-63Hz
- Input: 6' power cord (included)
- Mating output connector:
  5-pin DIN female connector
  P/N 15843, pg 50
- Size: 5.5"L x 3.0"W x 1.6"H • Weight: 1.3 lbs.

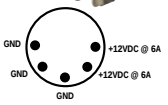


Part No.	Product No.	1	10	50	100
155053	SPU41-13D1	**$49.95**	**$44.95**	**$39.95**	**$35.95**

ELPAC 72 Watt Table-Top Switching Power Supply



- **Output voltage:**
  +12VDC @ 6A
- Input voltage:
  95-250VDC @ 47-63Hz
- Input: 6' power cord (included)
- Mating output connector:
  5-pin DIN female connector, P/N 180873, pg 57
- Size: 6.2"L x 3.8"W x 2.6"H • Weight: 2.5 lbs.



Part No.	Product No.	1	10	50	100
182959	W7212	**$99.95**	**$89.95**	**$79.95**	**$69.95**

Check Out Our Complete Line of Wall-Mount and Table-Top Power Supplies



Power cords – see below



160899



147467



107326



173825



155651



171088

* See photo above
† S = switching; L = linear

Part Number	Manufacturer	Product Number	Watts (W)	Output (VDC/A)	Input (VAC @ Hz)	Input Connector/Cord**	Output Connector/Cord	Certification	Size L" x W" x H"	Wt. (lbs.)	Type/Color	Mode†	Pricing 1	10	50	100
163969	Gatron	AH633N	3.75	+5/0.75	120 @ 60	3-prong/6' cord	4-pin mini DIN M/5'9"	UL/CSA	4.1 x 2.5 x 2.0	1.5	Table/Black	S	**$3.29**	**$2.94**	**$2.65**	**$2.38**
116089	Atari	C070042	5.0	+5/1	115 @ 60	2-prong/6' cord	7-pin DIN M/6'	UL	3.4 x 2.7 x 2.3	1.6	Table/Black	L	**6.95**	**6.25**	**5.59**	**4.49**
154624	Motorola*	5712-305-4C3E	5.6	+5/0.5, +12/0.13, -12/0.13	120 @ 60	3-prong wall plug	8-pin mini DIN M/6'	UL/CSA	2.9 x 2.6 x 1.9	1.2	Wall/Black	L	**7.95**	**6.95**	**6.25**	**4.95**
147467	Atari*	PS32	6.1	+5/0.72, +12/0.21	117 @ 60	2-prong/6' cord	5-pin DIN F/6'	UL/CSA	4.8 x 3.3 x 3.2	2.6	Table/Black	L	**2.49**	**2.25**	**1.99**	**1.79**
160899	Lexmark*	7202C3	7.5	+5/1.5	120 @ 60	2-prong/6'2" cord	3-pin Molex/8'	UL/CSA	5.5 x 2.5 x 1.2	2.1	Table/Black	L	**4.25**	**3.75**	**3.39**	—
153752	Skynet*	LVT-T022	8.0	+5/1.5, -5/0.1	115/230 @ 50/60	3-prong recep. / [2]	5-pin mini DIN M/6'	UL/CSA/TUV	5.5 x 2.9 x 1.5	1.1	Table/Black	S	**9.95**	**8.95**	**7.95**	**6.95**
103173	Jameco*	JE9100	9.0	+5/0.6, +12/0.25, -12/0.25	120 @ 50/60	2-prong/6' cord	5-pin DIN M/6'	UL/CSA	4.8 x 3.1 x 2.5	2.3	Table/Black	L	**19.95**	**17.95**	**15.95**	**14.95**
171088	Potrans*	WP481218D	12.0	+9/1, -9/0.3	120 @ 60	2-prong wall plug	3-pin mini DIN M/10'	UL/CSA	3.2 x 2.2 x 1.9	1.2	Wall/Black	S	**4.95**	**4.49**	**3.95**	**3.49**
155651	Globtek*	TR2V100MD8	12.2	+5/1, +12/0.3, -12/0.3	120 @ 60	3-prong/6' cord	8-pin mini DIN M/6'	UL	4.5 x 3.0 x 2.5	2.6	Table/Black	L	**24.95**	**22.49**	**19.95**	**17.95**
190596	Phihong	UP1412010	14.0	+5/1, +12/0.75	100-250 @ 50/60	3-prong recep. / [2]	5-pin mini DIN M/3'4"	UL/CSA/TUV/CE	4.1 x 2.5 x 1.3	0.9	Table/Black	S	**19.95**	**17.95**	**15.95**	—
107326	Keltron*	MPC2562	15.2	+5/2, +2.6/0.2	115 @ 60	3-prong/6' cord	3-pin Molex F/3'5"	UL	7.0 x 4.9 x 2.5	3.1	Table/Black	L	**9.95**	**7.95**	**6.75**	**4.95**
159353	Mean Well	KA60A	17.0	+5/1, +12/0.5 -12/0.5	100-240 @ 50/60	3-prong/6' cord	5-pin DIN M/5'	UL/CSA/TUV	4.1 x 2.6 x 1.5	1.0	Table/Black	S	**39.95**	**35.95**	**32.49**	**28.95**
189211	ACI World	57-12-1500D	18.0	+12/1.5	120 @ 60	2-prong wall plug	8-pin mini DIN M/3'4"	UL/CUL	3.4 x 2.6 x 2.2	1.7	Wall/Black	S	**8.95**	**7.95**	**6.75**	**5.59**
189843	ACI World	EPA201D12	20.0	+12/1.66	100-240 @ 50/60	3-prong recep. / [2]	8-pin mini DIN M/3'4"	UL/CSA/TUV/CE	4.3 x 2.3 x 1.3	1.0	Table/Black	S	**12.95**	**11.49**	**9.95**	**8.95**
171627	Ault	SC222TA	21.1	+5/1.1, +12/1.3	100-250 @ 50/60	3-prong recep. / [2]	4-pin mini DIN M/6'	UL/CSA/TUV/CE	4.1 x 2.5 x 1.5	0.9	Table/Black	S	**24.95**	**22.49**	**19.95**	**17.95**
190959	Meanwell*	P25A13D	22.7	+5/2.5, +12/0.8 -12/0.3	100-240 @ 47-63	3-prong/6' cord	5-pin DIN M/6'	CUL/TUV/CE	4.1 x 2.6 x 1.4	1.1	Table/Black	S	**39.95**	**35.95**	**32.49**	**28.95**
171070	Potrans	UP02513060	23.0	+5/2, +24/0.5, -5/0.2	100-250 @ 50/60	3-prong recep. / [1]	5-pin mini DIN M/3'8"	UL/CSA/TUV	4.2 x 2.6 x 1.5	1.0	Table/Beige	S	**19.95**	**17.95**	—	—
190650	Ault	SW300	25.0	+5/4, +12/1	100-250 @ 50/60	3-prong recep. / [2]	5-pin DIN M/6'	UL/CSA/TUV	5.9 x 3.4 x 2.1	1.5	Table/Black	S	**24.95**	**22.49**	**19.95**	**17.95**
173825	Ault*	SW109	25.0	+9/2.78	100-250 @ 50/60	3 prong recep./ [2]	3-pin Molex F/5'8"	UL/CSA/CE	5.0 x 3.0 x 1.5	1.3	Table/Black	S	**10.95**	**9.95**	**8.95**	**7.95**
189561	Phihong	PSM-3012G	26.0	+5/4, +12/0.5	100-240 @ 50/60	3-prong recep. / [1]	5-pin mini DIN M/6'	UL/CSA	5.8 x 2.9 x 1.6	1.3	Table/Beige	S	**27.95**	**24.95**	**22.49**	**19.95**
190570	Phihong	PSM3021	28.0	+5/2, +12/1.5	100-240 @ 50/60	3-prong recep. / [2]	5-pin DIN M/5'	UL/CSA/VDE	5.8 x 3.0 x 6.1	1.1	Table/Beige	S	**29.95**	**26.95**	—	—
155053	Mean Well*	SPU41-13D1	40.6	+5/5, +12/1, -12/0.3	100-240 @ 47/63	3-prong/6' cord	5-pin mini DIN F/4'	UL/CSA/TUV	5.5 x 3.0 x 1.6	1.3	Table/Black	S	**49.95**	**44.95**	**39.95**	**35.95**
182959	Elpac*	W7212	72.0	+12/6	95-250 @ 47/63	3-prong/6' cord	5-pin DIN F/6'	UL/CSA/CE	6.2 x 3.8 x 2.6	2.5	Table/Black	S	**99.95**	**89.95**	**79.95**	**69.95**

** Accessory Power Input Cords for Power Supplies (above)

Note: When required for above power supplies, the reference number for appropriate power cord is listed in the Input Connector/Cord column above

Part Number	Reference Number	Description	Color	AWG	Certification	Cord Length	Wt. (lbs.)	Cord Type	Pricing 1	10	100	250
38041	1	3-conductor detachable power supply cord	Beige	18/3	UL/CSA	6'	0.4	SVT	**$3.49**	**$2.95**	**$2.49**	**$1.95**
38050	2	3-conductor detachable power supply cord	Black	18/3	UL/CSA	6'	0.4	SVT	**3.75**	**3.25**	**2.75**	**2.25**

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

SKYNET 10 Watt Switching DC Power Supply

- **Output voltage: +5VDC @ 2A** SALE
- Input voltage: 115/230VAC @ 50/60Hz
- Input connector: 5-position 3-pin 0.156" male locking headers
- Mating input connector: recommend P/N 104723, pg 52
- Output connector: 2-position 0.156" male locking headers
- Mating output connector: recommend P/N 176743, pg 52
- Size: 4.4"L x 1.6"W x 0.8"H



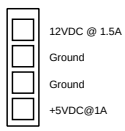


Part No.	Product No.	1	10	50	100
184866	SNP-0502-B	$6.95	$5.95	$4.95	$3.95

AUTEC 23 Watt Switching DC Power Supply

- **Output voltage: +5VDC @ 1A +12VDC @ 1.5A** SALE
- Input voltage: 115/230VAC @ 50/60Hz
- Internal fuse: 2A @ 250V
- Input connector: 5-position 0.156" male headers
- Mating input connector: P/N 104723 (5-position 0.156" female housing, pg 52)
- Output connector: 4-position 0.156" male header
- Mating output connector: P/N 104715, pg 52
- Size: 5.0"L x 3.0"W x 1.1"H



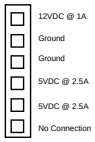


Part No.	Product No.	1	10	50	100
173374	UPS202002	$6.95	$6.25	$5.59	$4.95

SUPER MAC 24.5 Watt Switching DC Power Supply

- **Output voltage: +5V @ 2.5A +12V @ 1A** SALE
- Input voltage: 100-240VAC @ 50/60Hz
- 2A @ 250V fuse on board
- Mating input connector: P/N 104432 (3-position housing connector, pg 52)
- Mating output connector: P/N 104731 (6-position housing connector, pg 52)
- Minimum load: all outputs 10% of rated load
- Size: 3.8"L x 2.5"W





Part No.	Product No.	1	10	50	100
166967	U002512010	$8.95	$7.95	$6.95	$5.95

* see photo above

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Part Number	Mfr.	Product Number	Watts (W)	Output (VDC/A)	Input (VAC @ Hz)	Input Connector (Mating Connector)	Output Connector (Mating Connector)	Certification	Size L" x W" x H"	Wt. (lbs.)	Pricing 1	10	50	100
184866*	Skynet	SNP-0502-B	10	+5/2	115/230 @ 50/60	.156" M header (P/N 104723, pg 52)	.156" M header (P/N 176743, pg 52)	UL/CUL/TUV	4.4 x 1.6 x 0.8	0.2	$6.95	$5.95	$4.95	$3.95
170149	Potrans	U00251200	12.6	+18/0.7, -18/0.7	90-250 @ 50/60	.156" M header (P/N 104432, pg 52)	.156" M header (P/N 104731, pg 52)	UL/CSA/TUV	3.7 x 2.5 x 1.0	0.4	4.99	4.49	3.95	3.55
185244	Artesyn	NAL20-1130	16.3	+3.3/3, +8/0.6 -8/0.2	115 @ 60	3 prong receptacle (P/N 38050, pg 95)	Molex F cable (6-pin)	UL/CSA	5.5 x 3.0 x 1.1	0.4	4.15	3.95	3.49	2.95
189747	Tamura	79642191	17	+5/1, +12/1	120-230 @ 50/60	.156" M header (P/N 104432, pg 52)	.1" M shrouded header (4-pin)	—	4.7 x 2.4 x 1.1	0.4	6.95	6.25	5.59	4.95
146991	TDK	A530	19.4	+5/1, +12/1.2	100-115 @ 50/60	.156" M header (P/N 104432, pg 52)	.1" M locking header (4-pin)	UL	4.8 x 3.0 x 1.3	0.4	4.59	4.10	3.69	3.33
173374*	Autec	UPS20-2002	23	+5/1, +12/1.5	115/230 @ 50/60	.156" M header (P/N 104723, pg 52)	.156" M header (P/N 104715, pg 52)	UL/CSA/TUV	5.0 x 3.0 x 1.1	0.5	6.95	6.25	5.59	4.95
166967*	Super Mac	U002512010	24.5	+5/2.5, +12/1	100-240 @ 50/60	.156" M header (P/N 104432, pg 52)	.156" M header (P/N 104731, pg 52)	UL/CSA/TUV	3.8 x 2.5	0.4	8.95	7.95	6.95	5.95
168225	Converter Concepts	STRC0006	30	+5/2.7, +12/1.2 +35/0.035, -5/0.18	85-135 @ 57/63	.156" M header (P/N 104432, pg 52)	.156" M header (P/N 104731, pg 52)	UL	9.6 x 2.0 x 1.6	0.6	2.95	2.55	2.25	1.95
189536	Phihong	PSA4005	30	+5/6	90-264 @ 47/63	.156" M header (P/N 104432, pg 52)	.156" M header (P/N 104731, pg 52)	UL/CSA/VDE/CE	5.0 x 3.0 x 1.1	0.6	7.95	6.95	6.25	5.59
189712	Astec	RBS42	30	+5/6	100-240 @ 50/60	.156" M header (P/N 104432, pg 52)	.156" M header (P/N 104731, pg 52)	UL/CSA/VDE	5.0 x 3.0 x 1.2	0.6	8.95	7.95	6.95	6.25
190174	Astec	AA19720	30	+5/4, +12/1, -12/0.1	100-240 @ 50/60	3 prong receptacle (P/N 38050, pg 95)	Molex F cable (6-pin)	UL/CSA/TUV	5.7 x 2.5 x 1.2	0.4	9.95	8.95	—	—
190182	Phihong	PSM-34C	33	+5/3, +3.3/2, +11.5/1	100-240 @ 50/60	3 prong receptacle (P/N 38050, pg 95)	Molex F cable (12-pin)	UL/CUL/TUV	5.0 x 3.4 x 1.3	0.7	7.95	6.95	6.25	—
190191	Astec	AA20720	34	+5/3, +3.3/2, +12/1	100-240 @ 50/60	3 prong receptacle (P/N 38050, pg 95)	Molex F cable (12-pin)	UL/CSA/VDE	5.0 x 3.0 x 1.3	0.5	7.95	6.95	—	—
190203	Delta	LDPS378P	35	+5/2.7, +3.3/5, +12/0.5	100-240 @ 50/60	3 prong receptacle (P/N 38050, pg 95)	.156" M header (12-pin)	UL/CSA/VDE	5.9 x 4.2 x 1.2	0.8	9.95	8.95	—	—
188103	EOS	VLT40-3203	40	+3.3/6, +5/3, -12/0.5	100-240 @ 50/60	.156" M header (P/N 104432, pg 52)	.156" M header (P/N 104731, pg 52)	UL/VDE/CE	4.0 x 2.0 x 0.6	0.3	19.95	17.95	—	—
173551	Autec	UPS40-1002	40	+5/3, +12/2	115/230 @ 50/60	.156" M header (P/N 104723, pg 52)	.156" M header (P/N 104715, pg 52)	UL/CSA/TUV	7.0 x 2.0 x 1.2	0.5	5.35	4.79	4.31	3.88
172697	Skynet	IXM9543	40	+5/7, +12/0.3	100-240 @ 50/60	3 prong receptacle (P/N 38050, pg 95)	.156" F housing (P/N 104838, pg 52)	UL/CSA/TUV	6.5 x 3.0 x 1.3	0.6	6.95	6.25	5.59	4.95
189544	Phihong	PSA4034	40	+5/3, +15/2 -15/0.5	90-264 @ 47/63	.156" M header (P/N 104432, pg 52)	.156" M header (P/N 104731, pg 52)	UL/CSA/VDE/CE	5.0 x 3.0 x 1.1	0.6	9.95	8.95	7.95	6.95
190220	Computer Products	NPS40-7608	40	+5/3, +12/2, -12/0.35	100-240 @ 50/60	.156" M header (P/N 104432, pg 52)	.156" M header (P/N 104731, pg 52)	UL/CSA/VDE/CE	5.0 x 3.0 x 1.2	0.5	11.95	10.95	9.95	—
190211	Computer Products	NFN40-7630E	40	+5/3, +12/2, -12/0.35	100-240 @ 50/60	3 prong receptacle (P/N 38050, pg 95)	Molex F cable (6-pin)	UL/CSA	6.1 x 3.2 x 1.5	1.2	14.95	13.49	11.95	10.95
190238	Phihong	PSA-4033	40	+5/3, +12/2, -5/0.5	100-240 @ 50/60	.156" M header (P/N 104432, pg 52)	.156" M header (P/N 104731, pg 52)	UL/CUL/TUV	5.0 x 3.0 x 1.1	0.6	14.95	13.49	11.95	—
190246	Computer Products	NFN40-7632E	40	+5/5.0,+12/1.0, -12/0.5	100-240 @ 50/60	3 prong receptacle (P/N 38050, pg 95)	Molex F cable (6-pin)	UL/CSA	6.2 x 3.2 x 1.5	1.1	14.95	13.49	—	—
190254	Computer Products	NAL40-3215	40	+5/5.0, +12/1.0, -12/0.5	100-240 @ 50/60	.156" M header (P/N 104432, pg 52)	.156" M header (P/N 104731, pg 52)	UL/CSA	5.0 x 3.0 x 1.3	0.4	14.95	13.49	11.95	—

Open Frame Switching DC Power Supplies Continued On Pages 73-76

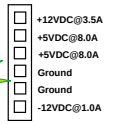
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ASTEC 60 Watt Switching DC Power Supply



- **Output voltage:**
  +5VDC @ 8A
  +12VDC @ 3.5A
  -12VDC @ 1A
- Input voltage: 100-240VAC @ 50/60Hz
- 3.15A@250V fuse
- Input connector: 3-position 0.156" locking male headers
- Mating input connector: P/N 104432, pg 52
- Output connector: 6-position 0.156" locking male headers
- Mating output connector: P/N 104731, pg 52
- 80 watt maximum with 30CFM forced air
- Minimum load: all outputs at 10% of rated load
- Size: 5.0"L x 3.0"W x 1.6"H • Weight: 0.8 lbs.

SALE



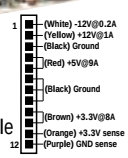
Part No.	Product No.	1	10	50	100
180970	LPT62 ...	$19.95	$17.95	$14.95	$12.95

DELTA 60 Watt Switching DC Power Supply



- **Output voltage:**
  +3.3VDC @ 8.0A
  +5VDC @ 9.0A
  +12VDC @ 1.0A
  -12VDC @ 0.2A
- Input voltage: 90-270VAC @ 47/63Hz
- Input fuse: 4A/250V
- Max rating 60W
- Input connector: 3-prong AC receptacle
- Mating input connector: P/N 38050 (3-conductor power cord, pg 95)
- Output connector: 12-position 0.156" male headers
- Mating output connector: 12-position Molex type (F) power connector (included)
- Minimum load: all outputs at 10% of rated load
- Size: 5.8"L x 3.3"W x 1.4"H • Weight: 1.0 lb.

SALE



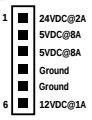
Part No.	Product No.	1	10	50	100
171731	DPS-60MPB	$6.95	$6.25	$5.59	$4.95

ASTEC 60 Watt Switching DC Power Supply



- **Output voltage: +5VDC @ 8A, +12VDC @ 1A, +24VDC @ 2A**
- Input voltage: 100-250VAC @ 50/60Hz
- Input connector: 3-position 0.156" male headers
- Mating input connector: P/N 104432, pg 52
- Output connector: 6-position 0.156" male headers
- Mating output conn.: P/N 104731, pg 52
- 60 watt max. convection cooling; 80 watts with 30 CFM forced air (recommend P/N 102904, pg 86) • 3.15A @ 250V fuse
- Minimum load: all outputs at 10% of rated load
- Size: 5.0"L x 3.0"W x 1.6"H • Weight: 0.8 lbs.

SALE



Part No.	Product No.	1	10	50	100
171281	LPT65	$14.95	$13.49	$11.95	$10.95

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* see photo above

Part Number	Mfr.	Product Number	Watts (W)	Output (VDC/A)	Input (VAC @ Hz)	Input Connector (Mating Connector)	Output Connector (Mating Connector)	Certification	Size L" x W" x H"	Wt. (lbs.)	Pricing 1	10	50	100
190262	Computer Products	NAL40-3245	40	+5/5, +12/2 -12/0.5	100-240 @ 50/60	3 prong receptacle (P/N 38050, pg 95)	.156" M header (P/N 104731, pg 52)	UL/CSA/VDE	5.5 x 2.5 x 1.1	0.5	$14.95	$13.49	—	—
190271	Astec	SA40-1313	40	+5/5, +12/3, -12/0.35	100-240 @ 50/60	.156" M header (P/N 104432, pg 52)	Molex F cable (6-pin)	UL/CSA/VDE	5.0 X 3.0 X 1.3	0.5	14.95	13.49	11.95	10.95
190086	Artesyn	NFS407608	40	+5.1/3, +12/2, -12/0.35	100-240 @ 50/60	.156" M header (P/N 104432, pg 52)	.156" M header (P/N 104731, pg 52)	UL/CSA/VDE/CE	5.0 X 3.0 X 1.2	0.5	14.95	13.49	11.95	10.95
28927	Astec	BM41012	41	+5/3.75, +12/1.5 -12/0.4	115 @ 50/60	—	.156" M header (P/N 104432, pg 52) (P/N 104715, pg 52)	UL/CSA/VDE	6.4 x 3.2 x 1.7	1.0	14.95	13.49	11.95	9.95
163985	Samsung	PSPL430201A	43	+5/5., +12/1.5	100-120 @ 50/60	3 prong receptacle (P/N 38050, pg 95)	(P/N 42067, pg 55) (P/N 114930, pg 55) (P/N 78326, pg 55)	UL/CUL	6.1 x 2.1 x 1.0	0.6	12.95	11.49	9.95	8.95
190289	Delta	SMP43EP-5	45	+5/7.2, +12/3 -12/0.5	100-240 @ 50/60	3 slip on wires	Molex F cable (6-pin)	UL/CSA	5.0 x 3.0 x 1.3	0.6	11.95	10.49	9.95	8.95
190297	Delta	SMP-43EP-10A	46	+5/8, +12/0.5	100-240 @ 50/60	.156" M header (P/N 104432, pg 52)	Molex F cable (6-pin)	UL/CSA	5.0 x 3.0 x 1.3	0.6	11.95	10.49	9.95	8.95
190300	Phihong	PSA50201	46	+5/8, +12/0.5	100-240 @ 50/60	.156" M header (P/N 104432, pg 52)	Molex F cable (6-pin)	UL/CUL/TUV	5.0 X 3.0 X 1.2	0.6	12.95	11.49	9.95	8.95
174641	Cherokee	CCH74C3	47	+3.3/9, +5/2.5, +5/1	100-240 @ 47/63	.156" M header (P/N 104432, pg 52)	.156" M header (7-pin .156" housing)	UL/CSA	5.0 x 3.0 x 1.3	0.7	5.95	5.15	4.60	4.15
184874	Skynet	BOCN061	48	+5/4, +3.3/1, +12/2	100-250 @ 47/63	3 prong receptacle (P/N 38050, pg 95)	.156" F housing conn. (P/N 104811, pg 52)	UL/CUL/TUV/CE	6.2 x 2.7 x 1.5	0.7	14.95	13.49	11.95	9.95
169050	Autec	UPS50-2002	51	+5/3, +12/3	115/230 @ 50/60	.156" M header (P/N 104723, pg 52)	.156" M header (P/N 104715, pg 52)	UL/CSA/TUV	5.0 x 3.0 x 1.9	0.7	6.95	6.25	5.59	—
190668	Astec	LPS60	60	+5/12	100-250 @ 50/60	.156" M header (P/N 104432, pg 52)	.156" M header (P/N 104731, pg 52)	UL/CSA/VDE/CE	5.0 x 3.0 x 1.5	0.7	19.95	17.95	15.95	13.95
180970*	Astec	LPT62	60	+5/8, +12/3.5, -12/1	100-240 @ 50/60	.156" M header (P/N 104432, pg 52)	.156" M header (P/N 104731, pg 52)	UL/CSA/TUV/ VDE/CE	5.0 x 3.0 x 1.6	0.8	19.95	17.95	14.95	12.95
171731*	Delta	DPS-60MPB	60	+3.3/8, +5/9, +12/1, -12/0.2	90-270 @ 47/63	3 prong receptacle (P/N 38050, pg 95)	.156" M header (12-pin housing incl.)	UL/CUL/TUV	5.8 x 3.3 x 1.4	1.0	6.95	6.25	5.59	4.95
189966	Autec	UPS61-1004-T	60	+3.3/4, +5/2 +12/3, +32/0.5	115/230 @ 50/60	2 prong receptacle (P/N 189587, pg 70)	Molex F cable (10-pin)	CSA/CE	5.0 x 3.5 x 1.8	0.8	14.95	13.49	10.95	9.95
188058	EOS	VLT60-1001	60	+12/5	100-240 @ 50/60	.156" M header (P/N 104432, pg 52)	.156" M header (P/N 104731, pg 52)	UL/VDE/CE	4.0 x 2.0 x 0.6	0.3	19.95	17.95	—	—
188066	EOS	VLT60-3000	60	+5/8, +12/3 -12/0.5	100-240 @ 50/60	.156" M header (P/N 104432, pg 52)	.156" M header (P/N 104731, pg 52)	UL/VDE/CE	4.0 x 2.0 x 0.6	0.3	29.95	24.95	—	—
171281*	Astec	LPT65	60	+5/8, +12/1, +24/2	100-250 @ 50/60	.156" M header (P/N 104432, pg 52)	.156" M header (P/N 104731, pg 52)	UL/CSA/VDE	5.0 x 3.0 x 1.6	0.8	14.95	13.49	11.95	10.95
171740	Total Power	TPG65-32B	65	+5/6, +30/1.16	90-264 @ 47/63	.156" M header (P/N 104432, pg 52)	.156" M header (P/N 104731, pg 52)	UL/CSA/TUV	5.0 x 3.0 x 1.3	0.6	9.95	8.95	7.95	6.95
169068	Autec	UPS65-1051	65	+5/13	115/230 @ 50/60	.156" M header (P/N 104723, pg 52)	.156" M header (P/N 104723, pg 52) (P/N 104432, pg 52)	UL/CSA/VDE	6.0 x 3.5 x 1.5	0.8	6.95	6.25	5.59	4.95
190318	Powerswitch	PVI-65-30X	65	+5/5, +12/2, -12/1.5	100-240 @ 50/60	.156" M header (P/N 104432, pg 52)	3 drive connectors 3.5"	UL/CSA/TUV	6.2 x 4.0 x 1.1	0.8	17.95	15.95	—	—

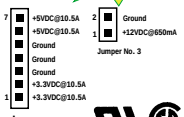
Open Frame Switching DC Power Supplies Continued On Pages 72, 74-76

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

ARTESYN 70 Watt Switching DC Power Supply



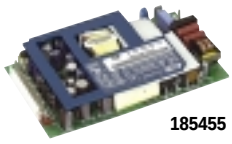
SALE



- **Output voltage:**
  3.3VDC @ 10.5A
  5VDC @ 10.5A
  12VDC @ 650mA
- Input voltage: 100–240VAC @ 50/60Hz
- Input connector: 3-position 0.156" male headers
- Mating input connector: P/N 104432, pg 52
- Output connector: 7-position and 2-position 0.156" male header
- Mating output connector: P/N 104432 and 104715, pg 52
- Minimum load: all outputs at 10% of rated load
- Size: 5.5"L x 3.0"W x 1.3"H • Weight: 0.8 lbs.

Part No.	Product No.	1	10	50	100
182916	NLP70-9693	**$7.95**	**$6.95**	**$6.25**	**$4.95**

EOS 100 Watt Switching DC Power Supply



185455

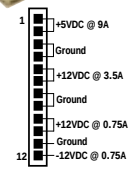
SALE

- **Output voltage:**
  +5.2VDC @ 12A
  +12VDC @ 4A
  -5VDC @ 0.8A
  -12VDC @ 0.8A
- Input voltage: 100–240VAC @ 50/60Hz
- Input connector: 3-position 0.156" male locking headers
- Mating input connector: P/N 104432, pg 52
- Output connector: 12-position 0.156" male header
- 3.5A @ 250V fuse
- Mating output connector: 2 P/N 104731, pg 52
- Size: 5.1"L x 3.1"W x 0.8"H • Weight: 0.6 lbs.

Part No.	Product No.	1	10	50	100
185455	VLT100-4000	**$29.95**	**$26.95**	**$22.95**	**$20.95**

PHIHONG 110 Watt Switching DC Power Supply





- **Output voltage:**
  +5VDC @ 9A
  +12VDC @ 3.5A
  +12VDC @ 0.75A
  -12VDC @ 0.75A
- Input voltage: 90-264VAC @ 47-63Hz
- Input connector: 5-position 0.156" male locking headers
- Mating input connector: recommend P/N 104723, pg 52
- Output connector: 12-position 0.156" male locking headers
- 4A@250V fuse
- Minimum load: all outputs at 10% of rated load
- Size: 6.8"L x 3.6"W x 1.7"H • Weight: 1.4 lbs.

Part No.	Product No.	1	10	50	100
189552	PSA110402	**$24.95**	**$22.49**	**$19.95**	**$17.95**

* see photo above

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Part Number	Mfr.	Product Number	Watts (W)	Output (VDC/A)	Input (VAC @ Hz)	Input Connector (Mating Connector)	Output Connector (Mating Connector)	Certification	Size L" x W" x H"	Wt. (lbs.)	Pricing 1	10	50	100
190326	Digital Power	US70-421	70	+5/7.0, +12/4.0, -5/2.0, -12/1.0	100-240 @ 50/60	.156" M header (P/N 104723, pg 52)	.156" M header (8-pin)	UL/CSA/TUV	5.0 x 3.2 x 1.5	0.8	$17.95	$15.95	—	—
182916*	Artesyn	NLP70-9693	70	+3.3/10.5, +5/10.5, +12/0.65	100-240 @ 50/60	.156" M header (P/N 104432, pg 52)	.156" M header (P/N 104432, pg 52) (P/N 104715, pg 52)	UL/CSA/VDE/CE	5.5 x 3.0 x 1.3	0.8	7.95	6.95	6.25	4.95
190676	Astec	LPS112	80	+5/16	100-250 @ 50/60	.156" M header (P/N 104723, pg 52)	.156" M header (P/N 104766, pg 52)	UL/CSA/VDE/CE	7.0 x 4.0 x 1.7	1.2	19.95	16.95	14.95	12.95
190334	Power One	MAP80-4000	80	+5/14, +12/4, -5/1, -12/1	110/230 @ 50/60	3 screw terminals	7 screw terminals	UL/CSA/TUV	7.2 x 4.3 x 1.8	1.8	19.95	17.95	—	—
190342	Computer Products	NFS85-7632	80	+5/8, +12/2, -12/1.5	100-240 @ 50/60	.156" M header (P/N 104723, pg 52)	Molex F cable (13-pin)	UL/CSA	7.0 x 4.2 x 1.3	1.3	19.95	17.95	15.95	—
190351	Power One	SP644	82.5	+3.3/19.5, +12/3	100-250 @ 50/60	.156" M header (P/N 104432, pg 52)	Molex F cable (12-pin)	UL/CSA/TUV	6.0 x 4.0 x 1.3	0.8	17.95	15.95	—	—
157913	Digital Power	US100-313	90	+3.3/6, +5/12, +12/0.8	90-250 @ 47/63	.156" M header (P/N 104766, pg 52) (P/N 104715, pg 52)	.156" M header (P/N 104723, pg 52)	UL/CSA/TUV	6.0 x 3.2 x 1.0	1.0	7.95	6.95	5.95	—
190369	Astec	AA19820	90	+5/15, +12/1	100-240 @ 50/60	3 prong receptacle (P/N 38050, pg 95)	Molex F cable (8-pin)	UL/CSA/VDE	8.0 x 3.5 x 1.9	1.3	17.95	15.95	—	—
190377	Lambda	SCQ12003054	96	+3.3/7, +5/5, +48/1, -48/1	100-240 @ 50/60	.156" M header (P/N 104723, pg 52)	.156" M header (12-pin)	UL/CSA	7.0 x 4.0 x 1.1	1.1	11.95	10.49	9.95	8.95
188111	EOS	VLT100-1003	100	+24/4.2	100-240 @ 50/60	.156" M header (P/N 104432, pg 52)	.156" M header (2 P/N 104731, pg 52)	UL/VDE/CE	5.1 x 3.1 x 0.8	0.6	24.95	22.49	—	—
185455*	EOS	VLT100-4000	100	+5.2/12, +12/4, -5/0.8, -12/-0.8	100-240 @ 50/60	.156" M header (P/N 104432, pg 52)	.156" M header (2 P/N 104731, pg 52)	UL/VDE/CE	5.1 x 3.1 x 0.8	0.6	29.95	26.95	22.95	20.95
190385	Digital Power	USS100-245	100	+5/20	90-250 @ 50/60	.156" M header (P/N 104723, pg 52)	.156" M header (14-pin)	UL/CSA/TUV	5.0 x 3.2 x 1.5	0.7	19.95	17.95	—	—
181198	Artesyn	NFS110-7601P	103	+5.1/8, +12/4.5, -5/0.5, -12/0.5	100-240 @ 50/60	.156" M header (P/N 104723, pg 52)	.156" M header (P/N 104432, pg 52); (P/N104766, pg 52)	UL/CSA/VDE/CE	7.0 x 4.2 x 1.8	1.3	24.95	22.49	19.95	17.95
190393	LiteOn	32267	110	+5/20, +12/2	100-240 @ 50/60	.156" M header (P/N 104432, pg 52)	Molex F cable (8-pin)	UL/CUL	7.7 x 3.5 x 1.9	1.1	19.95	17.95	—	—
189552*	Phihong	PSA110402	110	+5/9, +12/0.75, +12/3.5, -12/0.75	90-264 @ 47/63	.156" M header (P/N 104723, pg 52)	.156" M header (2 P/N 104731, pg 52)	UL/CSA/TUV	6.8 x 3.6 x 1.7	1.4	24.95	22.49	19.95	17.95
189528	Phihong	PSA110403	110	+5/9, +12/0.75, +24/1.75, -12/0.75	115/230 @ 50/60	.156" M header (P/N 104723, pg 52)	.156" M header (2 P/N 104731, pg 52)	UL/CSA/TUV	6.8 x 3.6 x 1.7	1.4	24.95	22.49	19.95	—
190422	Astec	AA20140	120	+3.3/16, +5/20, +12/2, -12/0.5	100-240 @ 50/60	.156" M header (P/N 104432, pg 52)	AT housing (24-pin)	UL/CSA/VDE	7.0 x 4.2 x 1.5	1.1	19.95	17.95	15.95	13.95
188040	EOS	VLT130-1103	130	+24/5.4	100-240 @ 50/60	.156" M header (P/N 104432, pg 52)	.197" term. block 6-pin or .09" M header 8-pin	UL/VDE/CE	5.1 x 3.1 x 0.8	0.6	29.95	26.95	—	—
185480	EOS	VLT130-3100-S2	130	+3.3/16, +5/14, +12/1.5	100-240 @ 50/60	.156" M header (P/N 104432, pg 52)	.197" term. block 6-pin or .09" M header 8-pin	UL/VDE/CE	5.1 x 3.1 x 0.8	0.6	29.95	26.95	23.95	—
185543	EOS	VLT130-4110-S16	130	+3.3/16, +5/14, +12/1.5, -5/1.5	100-240 @ 50/60	.156" M header (P/N 104432, pg 52)	.197" term. block 6-pin or .09" M header 8-pin	UL/VDE/CE	5.1 x 3.1 x 0.8	0.6	29.95	26.95	23.95	—
185471	EOS	VLT130-4112	130	+3.3/16, +5/14, +15/1.5, -15/1.5	100-240 @ 50/60	.156" M header (P/N 104432, pg 52)	.197" term. block 6-pin or .09" M header 8-pin	UL/VDE/CE	5.1 x 3.1 x 0.8	0.6	29.95	—	—	—
188875	EOS	VLT130-1004	130	+48/2.7	90-264 @ 47/63	.156" M header (P/N 104432, pg 52)	.197" term. block 6-pin or .09" M header 8-pin	UL/CUL/VDE/CE	5.0 x 3.0 x 0.6	0.6	29.95	26.95	—	—

Open Frame Switching DC Power Supplies Continued On Pages 72, 73, 75 & 76

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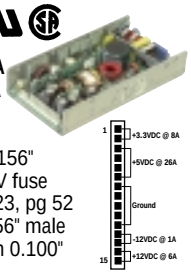
EOS 130 Watt Switching DC Power Supply



- **Output voltage:**
  +3.3VDC @ 16A
  +5VDC @ 14A
  +12VDC @ 1.5A
  -5VDC @ 1.5A
- Input voltage: 100–240VAC @ 50/60Hz
- 3.5A @ 250V fuse
- Input connector: 3-position 0.156" male locking headers
- Mating input connector: P/N 104432, pg 52
- Output connector: 8-position 0.09" male header or 6-position 0.197" terminal blocks
- Size: 5.1"L x 3.1"W x 0.8"H • Weight: 0.6 lbs.

Part No.	Product No.	1	10	50
185447	VLT130-4110	$29.95	$26.95	$23.95

CHEROKEE 150 Watt Switching DC Power Supply

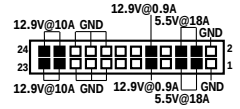


- **Output voltage:**
  +3.3VDC @ 8A, +5VDC @ 26A
  +12VDC @ 6A, -12VDC @ 1A
- Input voltage: 100–240VAC @ 47-63Hz
- Input connector: 5-position 0.156" male headers • 4A@250V fuse
- Mating input conn.: P/N 104723, pg 52
- Output conn.: 15-position 0.156" male locking headers and 5-position 0.100" male locking headers
- Mating output conn.: P/N 104766, 104723, and P/N 163686, pg 52
- Minimum load: all outputs at 10% of rated load
- Size: 8.0"L x 4.3"W x 1.5"H • Weight 2.1 lbs.

Part No.	Product No.	1	10	50	100
188971	MQT154A1	$29.95	$26.95	$23.95	$21.95

DIGITAL POWER 250 Watt Switching DC Power Supply





- **Output voltage:**
  +5.5VDC @ 18A
  +12.9VDC @ 10A
  +12.9VDC @ 0.9A
- Input voltage: 90-250VAC @ 47/63Hz
- 5A @ 250VAC fused
- Input connector: Molex type 6-position double row blind mating right angle header
- Output connector: Molex type 24-position double row blind mating right angle header
- Minimum load: all outputs at 10% of rated load
- Size: 10.0"L x 4.5"W x 1.9"H • Weight: 1.9 lbs.

Part No.	Product No.	1	10	50	100
171643	USS256-351	$29.95	$26.95	$23.95	$21.95

* see photo above

Check Out Our Complete Line Of Open Frame Power Supplies

Part Number	Mfr.	Product Number	Watts (W)	Output (VDC/A)	Input (VAC @ Hz)	Input Connector (Mating Connector)	Output Connector (Mating Connector)	Certification	Size L" x W" x H"	Wt. (lbs.)	Pricing 1	10	50	100
185447*	EOS	VLT130-4110	130	+3.3/16, +5/14, +12/1.5, -12/1.5	100-240 @ 50/60	.156" M header (P/N 104432, pg 52)	.197" term. block 6-pin or .09" M header 8-pin	UL/VDE/CE	5.1 x 3.1 x 0.8	0.6	$29.95	$26.95	$23.95	—
171686	Power One	MPU1503300S240	135	+3.3/30, +12/3	85-250 @ 50/60	.156" M header (P/N 104723, pg 52)	.156" F housing (12-pin)	—	8.1 x 4.2 x 1.5	1.9	8.95	6.95	6.15	5.55
190406	Power One	PU1503300S2	145	+5.1/26, +12/1	85-250 @ 50/60	.156" M header (P/N 104723, pg 52)	Molex F cable (24-pin)	UL/CSA/TUV	8.0 x 4.2 x 1.5	1.6	24.95	22.49	—	—
189721	Phihong	PSA1507U	150	+5/15, +12/6, +12/1	100-240 @ 50/60	3 pos. term. blocks (P/N 103587, pg 57)	8 pos. term. blocks (P/N 103587, pg 57)	UL/CSA/TUV	7.9 x 3.9 x 1.5	1.9	29.95	26.95	—	—
188971*	Cherokee	MQT154A1	150	+3.3/8, +5/26, +12/6, -12/1	100-240 @ 47/63	.156" M header (P/N 104723, pg 52)	.1" / .156" headers (P/N 189405, pg 75) (P/N 104723, pg 52) (P/N 104766, pg 52)	UL/CSA	8.0 x 4.3 x 1.5	2.0	29.95	26.95	23.95	21.95
190414	Advanced Power	APS175V1-33	175	+5/30, +12/15, +24/0.1	100-240 @ 50/60	2 slip on wires	Molex F cable (12-pin)	UL/CUL/TUV/CE	8.0 x 4.2 x 2.1	1.8	24.95	22.49	—	—
171643*	Digital Power	USS256-351	250	+5.5/18, +12.9/10 +12.9/0.9	90-250 @ 47/63	6-pin double row right angle header	24-pin double row right angle header	UL/CUL/TUV/CE	10.0 x 4.5 x 1.9	1.9	29.95	26.95	23.95	21.95

Power Supply Cable Assembly and Cord for Above Power Supplies

Part Number	Reference Number	Description	Color	AWG/Conductor	Certification	Cord Length	Wt. (lbs.)	Cord Type	Pricing 1	10	50
189405	188971	Power supply cable assembly for P/N 188971 power supply	Multi	18/13	UL/CSA	8"	0.06	—	$2.95	$2.75	$2.49
189587	189245/189966	Power supply cord for P/N 189245/189966 power supplies	Black	18/2	UL	6'	0.2	SPT2	2.95	2.65	2.39

Open Frame Switching DC Power Supplies Continued On Pages 72-74 & 76

DIN Rail Switching Power Supplies

entrelec

DIN Rail Switching Power Supplies

The Systron® PS switching power supplies offer many advantages over conventional power supplies.

- Overcurrent switch with automatic restart, over-temperature switch-off and reset with disconnection of input voltage
- DIN rail mount compact modules
- Operating temp.: 0˚C to 55˚C
- Low weight
- Short circuit and overload protection
- Recommend DIN rail P/N 185965, below
- Constant output voltage with good regulation
- High efficiency
- Fused input
- Low heating


186343


186351


186378


185965

Part No.	Manufacturer No.	Output Voltage	Input Voltage (VAC @ Hz/VDC)	Input Current @ Nominal Load	Size (L" x W" x H")	Wt. (lbs.)	1	10	100
186343	242341400	24VDC @ 0.5A	90-260 @ 47-440/105-260	0.3A(115V)/0.15A(230V)	0.9 x 3.1 x 4.7	0.5	$79.95	$71.95	$63.95
186351	242341800	24VDC @ 1.0A	90-260 @ 47-440/105-260	0.46A(115V)/0.27A(230V)	1.8 x 3.1 x 3.9	0.5	99.95	89.95	79.95
186360	242341700	24VDC @ 2.0A	90-260 @ 47-440/160-260	1A(90V)/0.45A(230V)	1.8 x 3.1 x 4.7	0.7	129.95	116.95	104.95
186378	242341600	24VDC @ 5.0A	90-260 @ 47-63/127-260	1.3A(115V)/0.63A(230V)	3.5 x 3.1 x 4.7	1.3	249.95	224.95	199.95
185965	017322005	DIN mounting rail (yellow anodized)			39.0 x 1.4 x 0.29	0.7	5.95	5.35	4.79

MEAN WELL

NEW

DIN Rail Switching Power Supplies

UL-508

- Low cost, high reliability
- Soft start circuit, limiting AC surge current
- Built in EMI filter, low ripple noise
- International AC input range
- Short circuit, overload, over voltage protected
- 100% full load burn in test

192698



192680



Part No.	Manufacturer No.	Output Voltage	Input Voltage (VAC @ Hz/VDC)	Input Current @ Nominal Load	Size (L" x W" x H")	Wt. (lbs.)	1	10	25
192698	DR4512	12VDC @ 3.5A	85-264 @ 47-63/120-370	1.5A (115V)/750mA(230V)	3.0 x 2.6 x 3.6	0.7	$69.95	$62.95	$56.95
192680	DR4524	24VDC @ 2A	85-264 @ 47-63/120-370	1.5A(115V)/750mA(230V)	3.0 x 2.6 x 3.6	0.7	69.95	62.95	56.69

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

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• High efficiency • Low output ripple • 100% burn-in • Short circuit, overload over-voltage protected • UL approved • MTBF rated • One-year warranty

25 Watt Single & Dual Output Switching Power Supplies



148603

- Input voltage: 85-246VAC @ 47-63Hz • Weight: 0.4 lbs.
- Mating connectors: P/N 104432 and P/N 104715, pg 52
- No minimum load required • Size: 4.2"L x 2.4"W x 1.2"H

MTBF Hours vs Operating Temperature at 100% Load

Operating Temp.	PS-25	PS-65	PD-25
50˚C	79,978 hrs.	14,104 hrs.	105,120 hrs.
25˚C	315,360 hrs.	69,642 hrs.	376,680 hrs.

Part No.	Product No.	Watts	Output	1	10	25
148603	PS25-12	25.2	+12VDC @ 2.1A	$24.95	$22.49	$19.95
148689	PD25-12 (Dual)	24.0	±12VDC @ 1.0A	24.95	22.49	19.95

45 & 65 Watt Dual Output Switching Power Supplies



194870

NEW



194896

- Input voltage: 90-264VAC @ 47-440Hz; 120-370VDC
- Ripple and noise: 50mV – 150mV peak to peak • Line regulation: ±1-2%
- DC voltage adjustment: CH1: +10, -5%
- Mating input connector: P/N 104432, pg 52
- Mating output connector: P/N 104731, pg 52

PD45 Series Size: 5.0"L x 3.0"W x 1.1"H

Part No.	Product No.	Watts	Output	1	10	25
194861	PD45A	40.0	5VDC @ 5.0A 12VDC @ 2.5A	$29.95	$26.95	$23.95
194870	PD45B	44.8	5VDC @ 5.0A 24VDC @ 1.8A	29.95	26.95	23.95

PD65 Series Size: 5.0"L x 3.0"W x 1.5"H

Part No.	Product No.	Watts	Output	1	10	25
194888	PD65A	61.1	5VDC @ 7.0A 12VDC @ 3.2A	$34.95	$31.49	$27.95
194896	PD65B	65.5	5VDC @ 6.0A 24VDC @ 2.6A	34.95	31.49	27.95

45 Watt Triple Output Switching Power Supply



- Input voltage: 90-264VAC @ 47-440Hz
- Mating input connector: P/N 104432, pg 52
- Mating output connector: P/N 104731, pg 52
- Input auto ranging • Data sheet included
- Minimum load: all outputs at 10% of rated load
- Size: 5.0"L x 3.0"W x 1.6"H • One-year warranty

Part No.	Product No.	Watts	Output	1	10	25	100
88401	PT45B	45	+5VDC @ 3.0A +12VDC @ 2.0A -12VDC @ 0.3A	$34.95	$31.49	$27.95	$24.95

65 Watt Single Output Switching Power Supplies



148638

- Input voltage: 85-264VAC @ 47-63Hz
- Mating connectors: P/N 104432 & P/N 104731, pg 52
- No minimum load required
- Size: 5.0"L x 3.0"W x 1.6"H • Weight: 0.6 lbs.

Part No.	Product No.	Watts	Output	1	10	25
148638	PS65-12	62.4	12VDC @ 5.2A	$29.95	$26.95	$23.95
148646	PS65-24	64.8	24VDC @ 2.7A	29.95	26.95	23.95

100 & 150 Watt Single Output Switching Power Supplies



LPS100 Series



LPP150 Series

With PFC – Power Factor Correction

- 100% full load burn-in test • Operating temp.: 0-50˚C
- PFC: 98% @ 115VAC; 95% @ 230VAC
- No minimum load requirement • Compact size, lightweight
- Overload, over voltage and short circuit protection

LPS100 Series Input volt.: 88-264VAC @ 47-63Hz

- Size: 8.7"L x 2.4"W x 1.1"H • Weight: 0.8 lbs.

Part No.	Product No.	Watts	Output	1	10	25
173471	LPS100-12	100.8	12VDC @ 8.4A	$49.95	$44.95	$39.95
173462	LPS100-24	100.8	24VDC @ 4.2A	49.95	44.95	39.95

LPP150 Series Input volt.: 85-264VAC @ 47-63Hz

- Size: 8.7"L x 2.9"W x 1.6"H • Weight: 1.2 lbs.

SALE

Part No.	Product No.	Watts	Output	1	10	25
173446	LPP150-48	153.6	48VDC @ 3.2A	$49.95	$43.95	$38.95

60 Watt Quad Output Switching Power Supply



- Input voltage: 100–240VAC @ 50-60Hz
- Line regulation: 0.5%-1.0%
- Ripple and noise: 100-120mV peak to peak
- DC voltage adjustment: CH 1: +10, -5%
- Mating input/output connector: P/N 103587, pg 57
- Minimum load: all output at 10% rated load
- Size: 6.3"L x 3.9"W x 1.5"H • Weight: 1.2 lbs.

Part No.	Product No.	Watts	Output	1	10	25	100
147045	Q60	60	+5VDC @ 5.5A; -5VDC @ 0.5A +12VDC @ 2A; -12VDC @ 0.5A	$49.95	$44.95	$39.95	$35.95

120 Watt Quad Output Switching Power Supplies



132388

- Input voltage: 90-130VAC or 180-260VAC
- Switch selectable input
- Mating input/output conn.: P/N 103587, pg 57
- Minimum load: all outputs at 10% of rated load
- MTBF see chart on (pg 77)
- Size: 8.0" x 4.4"W x 2.0"H • Weight: 2.0 lbs.

Part No.	Product No.	Watts	Output	1	10	25
132388	Q-120B	120	+5VDC @ 11A; -5VDC @ 1A +12VDC @ 4A; -12VDC @ 1A	$69.95	$62.95	$56.95
132370	Q-120D	124	+5VDC @ 8A; 24VDC @ 2A +12VDC @ 2A; -12VDC @ 1A	69.95	62.95	56.95

150 Watt Single Output Switching Power Supplies



173403

With PFC – Power Factor Correction

- Input voltage: 85-264VAC @ 47-63Hz
- PFC: 98% @ 115VAC; 95% @ 230VAC
- Overload, over voltage and short circuit protection
- Mating input/output connector: P/N 103587, pg 57
- No minimum load requirement
- 100% full load burn-in test
- Compact size, lightweight
- Operating temp.: 0-50˚C
- Size: 7.8"L x 3.9"W x 2.0"H • Weight: 1.7 lbs.

Part No.	Product No.	Watts	Output	1	10	25
173438	SP150-7.5	150	7.5VDC @ 20A	$59.95	$53.95	$48.95
173420	SP150-12	150	12VDC @ 12.5A	79.95	71.95	64.95
173411	SP150-15	150	15VDC @ 10A	79.95	71.95	64.95
173403	SP150-24	150	24VDC @ 6.5A	79.95	71.95	64.95

480 Watt Single Output Switching Power Supplies



147053

With PFC – Power Factor Correction

- Input voltage: 100-240VAC @ 50/60Hz
- Built-in remote control
- Mating input/output connector: P/N 103587, pg 57
- PFC: 98% @ 115VAC; 95% @ 230VAC
- Short circuit, overload, over voltage and over temperature protection
- Cooling fan (temperature sensing) • Remote voltage sensing
- Size: 7.3"L x 4.8"W x 3.8"H • Weight: 4.2 lbs.

Part No.	Product No.	Watts	Output	1	10	25
190692	SP500-12	480	12VDC @ 40A	$219.95	$189.95	$169.95
147053	SP500-24	480	24VDC @ 20A	219.95	189.95	169.95
190705	SP500-27	480	27VDC @18A	219.95	189.95	169.95
161795	SP500-48	480	48VDC @ 10A	219.95	189.95	169.95

MTBF (hours) vs Operating Temperature/Load

Product Numbers: S-25, S-40, S-60, S-100F, S-150, D-60, D-120, T-60, Q-120

Operating Temp.	50˚C	40˚C	30˚C
Load 100%	10,000	30,000	90,000
Load 60%	30,000	80,000	200,000

Product Numbers: S-240, SP-300

Operating Temp.	50˚C	40˚C	30˚C
Load 100%	45,000	90,000	180,000
Load 60%	62,500	125,000	250,000

SALE

Up to 60% off Hundreds of Products

Check Out Our Inventory Overstock Sale

See pages 4 & 5 for details

Special Order Any Mean Well Power Supply **Mean Well Authorized Distributor** **Mean Well is an ISO-9001 Certified Company**

• High efficiency • Low output ripple • 100% burn-in • Short circuit, overload over-voltage protected • UL approved • MTBF rated • One-year warranty


123254


123351


194829


123449


137648

25 Watt Single Output Switching Power Supplies

- Input voltage: 100 to 240VAC
- Full input range (no changes required for 110 or 220VAC operation)
- Mating input/output connector: P/N 103587, pg 57, spade terminal
- UL/TUV/CE approved • MTBF see table on page 76
- No minimum load required • Size: 3.9"L x 3.8"W x 1.4"H • Weight: 0.8 lbs.

Part No.	Product No.	Watts	Output	1	10	25	100
123246	S-25-5	25.0	5VDC @ 5.0A	$34.95	$31.95	$28.95	$25.95
123254	S-25-12	25.2	12VDC @ 2.1A	34.95	31.95	28.95	25.95
123262	S-25-15	25.5	15VDC @ 1.7A	34.95	31.95	28.95	25.95
123271	S-25-24	26.4	24VDC @ 1.1A	34.95	31.95	28.95	25.95

40 Watt Single Output Switching Power Supplies

- Input voltage: 100 to 240VAC
- Full input range (no changes required for 110 or 220VAC operation)
- Mating input/output connector: P/N 103587, pg 57, spade terminal
- UL/TUV/CE approved • MTBF see table on page 76
- No minimum load required • Size: 5.1"L x 3.9"W x 1.5"H • Weight: 1.0 lb.

Part No.	Product No.	Watts	Output	1	10	25	100
123289	S-40-5	40	5VDC @ 8.0A	$39.95	$35.95	$32.95	$29.95
123297	S-40-12	42	12VDC @ 3.5A	39.95	35.95	32.95	29.95
123318	S-40-24	43	24VDC @ 1.8A	39.95	35.95	32.95	29.95

60 Watt Single Output Switching Power Supplies

- Input voltage: 100 to 240VAC
- Full input range (no changes required for 110 or 220VAC operation)
- Mating input/output connector: P/N 103587, pg 57, spade terminal
- UL/TUV/CE approved • MTBF see table on page 76
- No minimum load required • Size: 6.3"L x 3.8"W x 1.5"H • Weight: 1.2 lbs.

Part No.	Product No.	Watts	Output	1	10	25	100
123326	S-60-5	60	5VDC @ 12A	$44.95	$39.95	$35.95	$32.95
123334	S-60-12	60	12VDC @ 5A	44.95	39.95	35.95	32.95
123342	S-60-15	60	15VDC @ 4A	44.95	39.95	35.95	32.95
123351	S-60-24	60	24VDC @ 2.5A	44.95	39.95	35.95	32.95

75 Watt Single Output Switching Power Supplies

- Input range: 85-264VAC @ 47-63Hz; 120-370VDC
- Ripple and noise: 80mV -100mV peak to peak
- DC voltage adjustment: CH1:+10%,-5%
- Soft start-circuit, limiting AC surge current
- Mating input/output connector: P/N 103587, pg 57 • Line regulation: ±5%
- Size: 7.0"L x 3.9"W x 1.3"H • Weight: 1.2 lbs.

NEW With PFC – Power Factor Correction

Part No.	Product No.	Watts	Output	1	10	25
194829	SP75-5	75	5VDC @ 15A	$54.95	$49.95	$44.95
194837	SP75-12	75	12VDC @ 6.3A	54.95	49.95	44.95
194845	SP75-15	75	15VDC @ 5A	54.95	49.95	44.95
194853	SP75-24	75	24VDC @ 3.2A	54.95	49.95	44.95

100 Watt Single Output Switching Power Supplies

- Input voltage: 86-264VAC @ 47-63Hz; 120-370VDC
- Ripple and noise: 100mV – 150mV peak to peak
- DC voltage adjustment: CH1: +10, -5%
- Mating input/output connector: P/N 103587, pg 57
- Line regulation: ±5%
- UL/CUL/TUV/CE/CB approved
- Size: 6.7"L x 3.7"W x "H • Weight: 1.5 lbs.

NEW With PFC – Power Factor Correction

Part No.	Product No.	Watts	Output	1	10	25
194790	SP100-5	100	5VDC @ 20A	$59.95	$54.95	$49.95
194802	SP100-12	100	12VDC @ 8.5A	59.95	54.95	49.95
194811	SP100-24	100	24VDC @ 4.2A	59.95	54.95	49.95

Call your Inside Sales Representative for OEM Pricing

Why settle for 70 or 80% efficient power supplies? Mean Well's Power Factor Correction technology delivers power supplies that are 96-98% efficient.

With PFC – Power Factor Correction

100 Watt Single Output Switching Power Supply

- Input voltage: 95 to 130VAC or 190 to 260VAC
- Jumper selectable input
- Mating input/output connector: P/N 103587, pg 57, spade terminal
- UL/TUV/CE approved • MTBF see table on page 76 • Weight: 1.4 lbs.
- No minimum load required • Size: 7.8"L x 3.9"W x 1.5"H

5V, 7.5V, 15V, 24V and 48V also available!

Part No.	Product No.	Watts	Output	1	10	25	100
123385	S-100F-12	102	12VDC @ 8.5A	$49.95	$44.95	$39.95	$35.95

150 Watt Single Output Switching Power Supplies

- Input voltage: 90 to 130VAC or 180 to 260VAC
- Jumper selectable input
- Mating input/output connector: P/N 103587, pg 57, spade terminal
- UL/TUV/CE approved • MTBF see table below right
- No minimum load required • Size: 7.8"L x 4.3"W x 2.0"H • Weight: 1.8 lbs.

9V, 13.5V and 27V also available!

Part No.	Product No.	Watts	Output	1	10	25	100
123393	S-150-5	150	5VDC @ 30A	$59.95	$53.95	$47.95	$43.95
123414	S-150-7.5	150	7.5VDC @ 20A	59.95	53.95	47.95	43.95
123422	S-150-12	150	12VDC @ 12.5A	59.95	53.95	47.95	43.95
123431	S-150-15	150	15VDC @ 10A	59.95	53.95	47.95	43.95
123449	S-150-24	156	24VDC @ 6.5A	59.95	53.95	47.95	43.95
167345	S-150-48	154	48VDC @ 3.2A	59.95	53.95	47.95	43.95

200 Watt Single Output Switching Power Supplies

- Input voltage: 85-264VAC @ 47-63Hz; 120-370VDC
- Line regulation: ±5%
- Ripple and noise: 100mV – 150mV peak to peak
- DC voltage adjustment: CH1: +10, -5%
- Soft-start circuit, limiting AC surge current
- UL/CUL/TUV/CB/CE approved
- Mating input/output connector: PN 103587, pg 57
- Size: 7.8"L x 3.9"W x "H • Weight: 1.9 lbs.

With PFC – Power Factor Correction NEW

Part No.	Product No.	Watts	Output	1	10	25
194773	SP200-12	200.4	12VDC @ 16.7A	$79.95	$71.95	$64.95
194781	SP200-24	201.6	24VDC @ 84A	79.95	71.95	64.95

240 Watt Single Output Switching Power Supplies

- Input voltage: 88 to 132VAC or 176 to 264VAC automatic switching
- Mating input/output connector: P/N 103587, pg 57, spade terminal
- Automatic fan controls internal temperature
- MTBF see table below
- UL/CSA/TUV/CE approved • Size: 8.0"L x 3.7"W x 2.6"H • Weight: 2.5 lbs.

5V, 7.5V, 15V and 30V also available!

Part No.	Product No.	Watts	Output	1	10	25	100
137648	S-240-12	216	12VDC @ 18A	$109.95	$99.95	$89.95	$80.95
137656	S-240-24	240	24VDC @ 10A	109.95	99.95	89.95	80.95
167337	S-240-48	240	48VDC @ 5A	109.95	99.95	89.95	80.95

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

Special Order Any Mean Well Power Supply — **Mean Well Authorized Distributor** — **Mean Well is an ISO-9001 Certified Company**

• High efficiency • Low output ripple • 100% burn-in • Short circuit, overload over-voltage protected • UL approved • MTBF rated • One-year warranty


137390


190713


123457


132409


123481

300 Watt Single Output Switching Power Supplies

- 98% @ 115VAC; 95% @ 230VAC
- Input voltage: 100 to 240VAC (with PFC - Power Factor Correction) • UL/TUV/CE approved
- Mating input/output connector: P/N 103587, pg 57, spade terminal
- Over-temperature protected • Automatic fan controls internal temperature
- MTBF see table below • Size: 9.0"L x 4.5"W x 2.0"H • Weight: 2.6 lbs.

With PFC – Power Factor Correction

Part No.	Product No.	Watts	Output	1	10	25
137390	SP-300-12	288	12VDC @ 24A	$139.95	$125.95	$113.95
137402	SP-300-24	300	24VDC @ 12.5A	139.95	125.95	113.95
161980	SP-300-48	300	48VDC @ 6.25A	139.95	125.95	113.95

500 Watt Single Output Switching Power Supplies

With Parallel Operation

- Input voltage: 90-264VAC @ 47-63Hz; 127-370VDC
- Ripple and noise: 200mV – 240mV peak to peak
- Parallel/series operation can reach 3KW
- Current sharing/remote control/remote sense
- Mating input/output connector: PN103587, pg 57
- Line regulation: +/-2% • UL/CUL/TUV/CE approved
- Size: 11.0"L x 5.0"W x 2.5"H • Weight: 5.5 lbs.

With PFC – Power Factor Correction — NEW

Part No.	Product No.	Watts	Output	1	10	25
190713	PSP500-12	480	12VDC @ 40A	$279.95	$251.95	$226.95
190721	PSP500-24	480	24VDC @ 20A	279.95	251.95	226.95
190730	PSP500-27	480	27VDC @ 18A	279.95	251.95	226.95
190748	PSP500-48	480	48VDC @ 10A	279.95	251.95	226.95

Is the power supply you are looking for not listed in our catalog? We can special order any Mean Well Power Supply. Call 1•800•831•4242 and ask a representative.

60 Watt Dual Output Switching Power Supplies

- Input voltage: 100 to 240VAC
- Full input range (no changes required for 110 or 220VAC operation)
- Mating input/output connector: P/N 103587, pg 57, spade terminal
- MTBF see table on page 76 • Weight: 1.2 lbs.
- Minimum load: all outputs at 10% of rated load • Size: 6.3"L x 3.8"W x 1.5"H

Part No.	Product No.	Watts	Output	1	10	25
123457	D-60A	56	5VDC @ 4A, 12VDC @ 3A	$49.95	$44.95	$39.95
123465	D-60B	58	5VDC @ 3A, 24VDC @ 1.8A	49.95	44.95	39.95

120 Watt Dual Output Switching Power Supplies

- Input voltage: 90-130VAC or 180-260VAC • Switch selectable input
- Mating input/output connector: P/N 103587, pg 57, spade terminal
- Minimum load: all outputs at 10% of rated load • Weight: 1.9 lbs.
- MTBF see table on page 76 • Size: 8.0"L x 4.4"W x 2.0"H

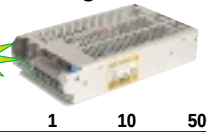
Part No.	Product No.	Watts	Output	1	10	25
132409	D-120A	120	5VDC @ 12A, 12VDC @ 5A	$59.95	$53.95	$47.95
132396	D-120B	126	5VDC @ 6A, 24VDC @ 4A	59.95	53.95	47.95

60 Watt Triple Output Switching Power Supplies

- Input voltage: 100 to 240VAC
- Full input range (no changes required for 110 or 220VAC operation)
- Mating input/output connector: P/N 103587, pg 57, spade terminal
- MTBF see table on page 76 • Weight: 1.2 lbs.
- Minimum load: all outputs at 10% of rated load • Size: 6.3"L x 3.8"W x 1.5"H

Part No.	Product No.	Watts	Output	1	10	25
123481	T-60B	61	5VDC @ 5A, 12VDC @ 2.5A -12VDC @ 0.5A	$49.95	$44.95	$39.95
123490	T-60C	63	5VDC @ 5A, 15VDC @ 2.0A -15VDC @ 0.5A	49.95	44.95	39.95

VOLGEN 30 Watt Switching DC Power Supply



- **Output voltage: +12VDC @ 2.5A**
- Adjustable outputs ±10%

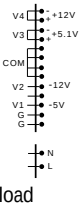
SALE

Part No.	Product No.	1	10	50
167687	MRE122R5U	$12.95	$10.95	$9.95

Our commitment is backed by a competitor price match policy

ASTEC 50 Watt Switching DC Power Supply





- **Output voltage: +5VDC @ 6.0A, +12VDC @ 2.5A, -5VDC @ 0.5A, -12VDC @ 0.5A**
- Minimum load: all outputs at 10% of rated load

Part No.	Product No.	1	10	50
146843	AC9232-01	$24.95	$22.95	$19.95

POWER ONE 2000 Watt Switching DC Power Supply



- **Output voltage: +5VDC @ 8A, +12VDC @ 3A, -12VDC @ 1A**
- Minimum load: all outputs at 10% of rated load

SALE

Part No.	Product No.	Price
167530	USC100-311	$149.95

Check Out Our Complete Line Of Enclosed Power Supplies

* see photo above

Part Number	Manufacturer	Product Number	Watts (W)	Output (VDC/A)	Input (VAC @ Hz)	Input Connector/Cord	Output Connector	Certification	Size L" x W" x H"	Wt. (lbs.)	Pricing 1	10	50
167687	Volgen*	MRE122R5U	30	+12/2.5	100/230 @ 50/60	screw terminal (P/N 103587, pg 57)	screw terminal (P/N 103587, pg 57)	UL/CSA/TUV/CE	6.2 x 3.9 x 1.5	1.1	$12.95	$10.95	$9.95
190140	Computer Products	NFN40-7643E	40	+5/5, +12/1 -12/0.5	100-240 @ 50/60	3 prong receptacle (P/N 38050, pg 95)	6-pin molex F cable	UL/CSA	6.0 x 4.0 x 1.7	1.7	14.95	13.49	—
190158	Cherokee	SP236	43	+5/5, +12/1 -12/0.5	100-240 @ 50/60	3 prong receptacle (P/N 38050, pg 95)	.156 M header (P/N 104731, pg 52)	UL/CSA	7.0 x 3.5 x 2.5	1.6	14.95	13.49	—
167636	Volgen	ERK50U1212	50	+5/6, +12/2.5 -12/0.5	120/240 @ 50/60	screw terminal (P/N 103587, pg 57)	screw terminal (P/N 103587, pg 57)	UL/CSA/TUV/CE	7.4 x 4.1 x 1.6	1.5	19.95	17.95	—
146843	Astec*	AC9232-01	50	+5/6, +12/2.5 -5/0.5, -12/0.5	115/230 @ 50/60	.156" M header (P/N 104432, pg 52)	.156" M header (P/N 104432/ 104766, pg 52)	UL/CSA/VDE	8.0 x 4.5 x 2.5	2.0	24.95	22.95	19.95
101813	Compaq	141688-003	73	+5/10, +12/1.5, -5/0.3, -12/0.3	100/240 @ 50/60	3 prong receptacle (P/N 38050, pg 95)	.156" M header 103392, pg 51; 78300 (2), 42075 (1), pg 55	UL/CSA/TUV	6.6 x 3.8 x 2.9	2.1	19.95	17.95	15.95
181180	Digital Power	USC100-311	88	+5/8, +12/3, -12/1	99/250 @ 47/63	5-pin .156" header P/N 104723, pg 52	14-pin header	UL/CUL/TUV	5.0 x 3.4 x 1.5	0.9	19.95	17.95	—
167530	Power One*	HPM5A42K	2000	+5/150, +5/250	180/264 @ 47/440	screw terminal (P/N 103587, pg 57)	screw terminal (P/N 103587, pg 57)	UL/CSA/TUV	11.0 x 8.0 x 5.0	2.1	149.95	—	—

COMPAQ 73 Watt Power Supply



- **Output:**
  +5VDC @ 10A
  +12VDC @ 1.5A
  -5VDC @ 0.3A
  -12VDC @ 0.3A
- Input voltage: 100/240VDC @ 50/60Hz (switchable)
- Input auto ranging • Recessed power switch
- Mating input connector: suggest using P/N 38050 power cord, pg 95 – not included
- Mating output connector: P/N 103392, pg 51; 2 P/N 78300 and 42075, pg 55
- Minimum load: all outputs at 10% of rated load
- Size: 6.6"L x 3.8"W x 2.9"H • Weight: 2.1 lbs.

Part No.	Product No.	Description	1	10	50
101813	141688003	73 watt	**$19.95**	**$17.95**	**$15.95**

PC/XT/AT 200 Watt Power Supply



- **Output:**
  +5V @ 20A
  +12V @ 8A
  -5V @ 0.5A
  -12V @ 0.5A
- Input voltage: 110-220VAC @ 47-63Hz (switchable)
- PC/XT/AT compatible connectors **67467**
- Built-in fan • Weight: 4.5 lbs.
- Size: 9.5"L x 5.5"W x 4.6"H • One-year warranty

Includes: 6' power cord

Part No.	Product No.	Description	1	10	25
67467	JE1030A	200 watt	**$64.95**	**$59.95**	**$54.95**

ASTEC AT 145 Watt Power Supply



- **Output:**
  +5VDC @ 18A
  +12VDC @ 6A
  -5VDC @ 0.3A
  -12VDC @ 0.8A
- Input voltage: 100-240VDC @ 50/60Hz (switchable)
- Mating input connector: suggest using P/N 38050 power cord, pg 95 – not included
- Size: 5.9"L x 5.5"W x 3.4"H • Weight: 2.3 lbs.

Part No.	Product No.	Description	1	10	25
189704	SA1453490	145 watt	**$39.95**	**$35.95**	**$32.95**

TRIMAG XT/AT 200 Watt Power Supply



- **Output:**
  +5V @ 19.8A
  +12V @ 7.3A
  -5V @ 300mA
  -12V @ 300mA
- XT/AT compatible connectors • Built-in fan
- Input voltage: 115/240VAC @ 47-63Hz (switchable)
- Size: 8.7"L x 5.6"W x 4.7"H • Weight: 5.5 lbs.

Includes: 6' power cord

Part No.	Product No.	Description	1	10	25
177535	BM5200	200 watt	**$39.95**	**$34.95**	**$29.95**

ASTEC AT 200 Watt Power Supply



- **Output:**
  +5V @ 23A
  +12V @ 8.0A
  -5V @ 0.5A
  -12V @ 0.5A
- AT compatible connectors
- Fits popular mini-vertical & desktop cases, pg 133
- Input voltage: 110-220VAC @ 50-67Hz (switchable)
- Mating input connector: suggest using P/N 38050 power cord, pg 95 – not included • Built-in fan
- Size: 5.5"L x 5.9"W x 3.4"H • Mfg #: SA201-3450
- Weight: 3.2 lbs. • One-year warranty

Part No.	Product No.	Desc.	1	10	25
19529	JE1034	200 watt	**$39.95**	**$35.95**	**$32.95**

AT 200 Watt Power Supply



- **Output:**
  +5V @ 20A
  +12V @ 8A
  -5V @ 0.5A
  -12V @ 0.5A
- Input voltage: 115/230V @ 50/60Hz (switchable)
- AT compatible connectors • Built-in fan
- Size: 6.0"L x 4.6"W x 3.4"H • Weight: 2.6 lbs.

Includes: 6' power cord

Part No.	Product No.	Description	1	10	25
172822	AA-230	200 watt	**$44.95**	**$38.95**	**$35.95**

AT 250 Watt Power Supply



- **Output:**
  +5V @ 20A
  +12V @ 10A
  -5V @ 0.5A
  -12V @ 0.5A
- Fits popular mini-vertical and desktop cases, pg 133
- Input voltage: 110-220VAC @ 50-67Hz (switchable)
- AT compatible connectors • One-year warranty
- Size: 5.5"L x 5.9"W x 3.4"H • Weight: 2.0 lbs.

Includes: 6' power cord

Part No.	Product No.	Description	1	10	25
174465	LC250C	250 watt	**$49.95**	**$44.95**	**$39.95**

AT Compatible 300 Watt Power Supply with 3.3V Regulator



- **Output:**
  +3.3V @ 28A
  +5V @ 30A
  +12V @ 10A
  -5V @ 1A
  -12V @ 1A
- Fits popular mini-vertical and desktop cases, pg 133
- 3.3V regulated power connectors to motherboard
- Input voltage: 110/220VAC @ 50/60Hz (switchable)
- AT compatible connectors • One-year warranty
- Size: 5.5"L x 5.9"W x 3.4"H • Weight: 4.7 lbs.

Includes: 6' power cord

Part No.	Product No.	Description	1	10	25
132185	JE1035	300 watt	**$99.95**	**$89.95**	**$80.95**

ATX 200W Power Supply



- **Output voltage:**
  +3.3V @ 14A
  +5V @ 20A
  +12V @ 8A
  -5V @ 0.5A
  -12V @ 0.8A
- 20-pin ATX form factor
- Input voltage: 100/240VAC @ 50/60Hz (switchable)
- Mating input connector: suggest using P/N 38050 power cord, pg 95 – not included
- Size: 6.0"L x 5.5"W x 4.4"H • Weight: 2.8 lbs.

Part No.	Product No.	Description	1	10	25
174035	JE2130	200 watt	**$54.95**	**$49.95**	**$45.95**

ATX Compatible 250 and 300 Watt Power Supplies



152514

- **152514 (250 Watt) Output:**
  +3.3V @ 16A
  +5V @ 25A
  +5VSB @ 1.5A
  +12V @ 10A
  -5V @ 0.5A
  -12V @ 0.5A
- **155811 (300 Watt) Output:**
  +3.3V @ 14A **+5V @ 25A** **+12V @ 12A**
  +5VSB @ 0.8A **-5V @ 0.5A** **-12V @ 0.5A**
- Input voltage: 115/230V @ 50-60 (switchable)
- 20-pin ATX connector • One-year warranty

152514: • Size: 5.5"L x 5.9"W x 3.4"H • Wt.: 3.3 lbs.
155811: • Size: 5.9"L x 5.5"W x 3.2"H • Wt.: 4.1 lbs.

Includes: 6' power cord

Part No.	Product No.	Description	1	10	25
152514	JE8250	250 watt	**$49.95**	**$44.95**	**$39.95**
155811	JE5300	300 watt	**69.95**	**62.95**	**56.95**

ATX 250 and 300 Watt Power Supplies w/ Power Switch



152194

- **152194 (250 Watt) Output:**
  +3.3V @ 14A
  +5V @ 25A
  +12V @ 10A
  +5VSB @ 1.5A
  -5V @ 0.5A
  -12V @ 0.5A
- **155539 (300 Watt) Output:**
  +3.3V @ 14A **+5V @ 30A** **+12V @ 8A**
  +5VSB @ 1.5A **-5V @ 0.5A** **-12V @ 0.5A**
- Input voltage: 115/230VAC @ 50-60Hz (switchable)
- 20-pin ATX connector • Power on/off switch
- Built-in fan • One-year warranty

152194: • Size: 6.0"L x 5.5"W x 3.4"H
• Compatible with P/N 140038, pg 133
• Weight: 3.5 lbs.
155539: • Size: 5.9"L x 5.5"W x 3.4"H
• AMD Athlon approved • Weight: 3.7 lbs.

Includes: 6' power cord

Part No.	Product No.	Description	1	10	25
152194	JE2031	250 watt	**$69.95**	**$62.95**	**$56.95**
155539	JE2033	300 watt ...	**79.95**	**71.95**	**64.95**

Check Out These Additional Enclosed Computer Power Supplies

Part Number	Mfr.	Product Number	Watts (W)	Output (VDC/A)	Input (VAC @ Hz)	Input Connector (Mating Connector/Cord)	Output Connector (Mating Connector)	Certification	Size (L" x W" x H")	Wt. (lbs.)	Pricing 1	Pricing 10	Pricing 25
190094	Delta	DPS200PB	200	+3.3/20, +5/20, +12/8, -5/0.5, -12/0.5	100-240 @ 50-60	3-prong AC receptacle (P/N 38050, pg 95)	IBM AT	UL/CSA/TUV	5.5 x 5.9 x 3.4	3.2	**$29.95**	**$26.95**	**$23.95**
190107	Minnebea	AF00128	200	+3.3/20, +5/20, +12/8, -5/0.5, -12/0.5	100/240 @ 50-60	3-prong AC receptacle (P/N 38050, pg 95)	IBM AT	UL/CSA/TUV	5.5 x 5.9 x 3.3	3.4	**29.95**	**26.95**	—
190115	API	API-3186S	200	+3.3/20, +5/20, +12/8, -5/0.5, -12/0.5	100/240 @ 50-60	3-prong AC receptacle (P/N 38050, pg 95)	STD AT	UL/CSA/TUV	5.5 x 5.9 x 3.7	3.5	**29.95**	**26.95**	**23.95**
190123	Golden Systems	GPC200-5000	200	+3.3/20, +5/20, +12/8, -5/0.5, -12/0.5	100-240 @ 50-60 switchable	3-prong AC receptacle (P/N 38050, pg 95)	IBM AT	UL/CUL/TUV	5.5 x 5.9x 3.7	4.2	**29.95**	**26.95**	**23.95**
190131	Win	MCX-200PF	200	+5/20, +12/8, -5/0.5, -12/0.5	115/230 @ 50-60	3-prong AC receptacle (P/N 38050, pg 95)	IBM AT	UL/CSA	5.5 x 5.9 x 3.6	2.7	**29.95**	**26.95**	—
191505	Hipro	HP250NLXAA	250	+3.3/14, +5/27, +12/9, +5VSB/0.1, -5/0.5, -12/0.5	115/230 @ 50-60 switchable	3-prong AC receptacle (P/N 38050, pg 95)	ATX	—	5.5 x 5.9 x 3.5	3.1	**59.95**	**53.95**	**48.95**

13.8VDC Precision Regulated Linear Power Supplies

- Input voltage: 115VAC @ 60Hz
- Fuse protected • Illuminated rocker switch
- Heavy duty 5'8" 3-prong power cord
- Short circuit protection
- Output terminals: see page 85 for mating cigarette plugs and page 128 & 129 for mating banana terminal plugs

† P/N 136581 includes overheating protection

164179
Cigarette plug



163918
Banana terminal



135845
Banana & Cigarette



Part No.	Model No.	Watts	Output Current	Output Terminals	Size (L" x W" x H")	Wt. (lbs.)	1	10	25
164179	RPS1203C	41.4	3A	cigarette plug	3.3 x 5.1 x 7.5	5.8	$12.95	$11.49	$9.95
164161	RPS1203D	41.4	3A	banana terminals / cigarette plug	3.3 x 5.1 x 7.5	5.8	13.95	12.49	10.95
163918	RPS1204T	55.2	4A	banana terminals	3.6 x 5.6 x 8.6	7.9	19.95	17.95	15.95
135845	RPS1204	55.2	4A	banana terminals / cigarette plug	6.7 x 5.2 x 3.2	5.5	29.95	26.95	23.95
163926	RPS1205	69.0	5A	banana terminals	3.8 x 5.6 x 9.0	8.9	22.95	19.95	17.95
136581 †	RPS1207	96.6	7A	banana terminals	8.7 x 5.7 x 3.6	8.5	49.95	44.95	39.95
138667	38-381	138.0	10A	banana terminals (rear)	7.0 x 6.6 x 4.3	10.0	69.95	62.95	56.95
138675	52-192012	276.0	20A	banana terminals	10.0 x 7.8 x 4.4	15.9	109.95	99.95	89.95

DC-to-DC Power Converters

3 to 15 Watt DC-to-DC Converters

- Short-circuit/overcurrent protection
- One-year warranty

Mean Well is an ISO-9001 Certified Company

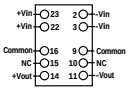


Fig. 1

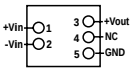


Fig. 2

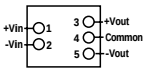


Fig. 3

Part Number	Product Number	Fig.	Wattage (W)	Input Voltage Range (VDC)	Output Voltage (VDC)	Ripple p-p (mV)	Output Current (mA)	Pins	Size L" x W" x H"	Wt. (lbs.)	Pricing 1	10	50
155918	DCW03A05	1	3	9-18	+5/-5	100	300	8	1.2 x 0.7 x 0.5	0.04	$21.95	$19.95	$17.95
161701	DCW03A12	1	3	9-18	+12/-12	100	125	8	1.3 x 0.8 x 0.5	0.05	21.95	19.95	17.95
155715	SKE15A05	2	15	9-18	+5	50	3000	4	2.0 x 2.0 x 0.4	0.20	29.95	26.95	23.95
155707	SKE15A12	2	15	9-18	+12	60	1250	4	2.0 x 2.0 x 0.4	0.20	29.95	26.95	23.95
155694	SKE15A24	2	15	9-18	+24	80	625	4	2.0 x 2.0 x 0.4	0.10	29.95	26.95	23.95
161728	DKE15A12	3	15	9-18	+12/-12	60	625	5	2.0 x 2.0 x 0.4	0.20	29.95	26.95	23.95

25 Watt DC-to-DC Converters

- Input voltage: 9.2VDC-18VDC • Voltage output adjustable
- Built-in EMI filter, low ripple noise • Size: 3.9"L x 3.9"W x 1.5"H
- Short-circuit, over voltage and overload protection
- Input/output connector: screw down terminals
- Mating connectors: P/N 103587 or P/N 103595, pg 57



175812

Part No.	Product No.	Output	1	10	50	100
175661	SD25A5	5V @ 5A	$39.95	$35.95	$32.95	$29.95
175804	SD25A12	12V @ 2.1A	39.95	35.95	32.95	29.95
175812	SD25A24	24V @ 1.1A	39.95	35.95	32.95	29.95

3 to 220 Watt DC-to-DC Converters

** (188162)

SALE

- Over temperature, over voltage and short-circuit protection



Fig. 1



Fig. 2



Fig. 3

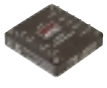


Fig. 4



Fig. 5



Fig. 6



Fig. 7

For additional Astec Converters click on www.jameco.com



Part Number	Product Number	Fig.	Wattage (W)	Nominal Voltage	Input Range (VDC)	Output Voltage (VDC)	Ripple p-p (mV)	Output Current (A)	Pins	Size L" x W" x H"	Wt. (lbs.)	Pricing 1	10	50
153736	EPC1053	6	3	12	7.5-16	9	100	0.250	12	1.2 x 0.7 x 0.5	0.02	$2.95	$2.65	$2.39
188904	AA10B048L150D	1	4	48	36-75	±15	75	0.3	5	2.0 x 1.0 x 0.4	0.20	24.95	22.49	—
185885	AA10B046L120DE	1	9	48	36-75	±12	75	0.375	6	2.0 x 1.0 x 0.4	0.20	24.95	22.49	—
188921	AA10B012L150SE	1	10	12	9-36	15	7.5	0.67	6	2.0 x 1.0 x 0.4	0.20	24.95	—	—
188939	AA10B048L120DE	1	10	48	36-75	±12	60	0.375	6	2.0 x 1.0 x 0.4	0.10	24.95	22.49	—
188883	AA10B048L150S	1	10	48	36-75	15	75	0.67	5	2.0 x 1.0 x 0.1	0.20	24.95	22.49	—
109276	AA9090A	7	21	16	0-20	+5.1/+12/-26/350VAC	50/100/200	3.75/0.1/.04/.005	32	3.6 x 1.6 x 0.8	0.10	4.95	4.25	3.75
188226	AA40C048L050D	3	40	48	36-75	±5	120	4	10	3.0 x 3.0 x 0.5	0.20	22.95	19.95	—
188955	AK60A024L240F02	2	50	24	18-36	24	720	2	8	2.3 x 2.4 x 0.5	0.30	24.95	—	—
188218	AK60A048L120F04G	2	50	48	36-75	12	150	4	8	2.4 x 2.3 x 0.5	0.30	24.95	22.49	—
188120	AK60A024L120F08	2	60	24	18-36	12	150	5	8	2.4 x 2.3 x 0.5	0.30	27.95	24.95	22.49
188162	QBRB075NJ**	2	75	48	36-75	12	N/A	6.3	8	2.4 x 2.3 x 0.5	0.30	27.95	24.95	—
188171	AK60A048L150F05	2	75	48	36-75	15	150	5	8	2.4 x 2.3 x 0.5	0.30	27.95	24.95	—
188891	AK60A024L050F20	5	100	24	18-36	5	150	20	8	2.3 x 2.4 x 0.5	0.30	27.95	24.95	—
188138	AK60A048L120F08G	2	100	48	36-75	12	150	8	8	2.4 x 2.3 x 0.5	0.30	27.95	24.95	22.49
188154	AK60A048L150F07G	2	100	48	36-75	15	150	7	8	2.4 x 2.3 x 0.5	0.30	27.95	24.95	22.49
188146	AK60A048L240F04G	2	100	48	36-75	24	150	4	8	2.4 x 2.3 x 0.5	0.30	27.95	24.95	22.49
188947	AK60C048L120F08GP4	4	100	48	36-75	12	600	8	9	2.4 x 2.3 x 0.5	0.30	24.95	—	—
188963	AL60A048L150F08	2	120	48	36-72	15	750	8	8	2.3 x 2.4 x 0.5	0.30	24.95	—	—
188197	AK60C048L050F20G	4	125	48	36-75	5	150	20	9	2.3 x 2.4 x 0.5	0.30	27.95	24.95	22.49
188200	BK60A048L120F13G	2	150	48	36-75	12	100	13	8	2.4 x 2.3 x 0.5	0.30	27.95	24.95	22.49
188189	AK80A024L150F12	5	220	24	18-36	15	100	12	10	4.5 x 2.4 x 1.1	1.10	29.95	26.95	—

For our NEW Minipower DC-to-DC Converters see page 168

140 Watt Power Inverter



- High surge, over / under voltage / short / overload / thermal cut-off protection
- Max. continuous power: 140W
- Input connector: cigarette lighter plug
- Output connector: 3-prong AC receptacle
- Input voltage: 12VDC • Rocker type on/off switch • LED status indicators
- No load current draw: <0.1A • Modified sine wave form
- 30A spade type fuse • Size: 5.0"L x 5.2"W x 2.0"H • Weight: 1.8 lbs.

Part No.	Product No.	Output Voltage	1	10
191468	PP140AC	120VAC	$29.95	$26.95

150 Watt DC-AC Inverters





- Input voltage: 12VDC
- Battery low shutdown
- Peak power surge capable
- Overload and high grade thermal protection

188293: • Output voltage: 120VAC • Size: 5.5"L x 2.6"W x 1.6"H • Weight: 1.3 lbs.

188285: • Output voltage: 220VAC • Size: 6.9"L x 4.0"W x 2.2"H • Wt.: 1.8 lbs.

Part No.	Product No.	Output Voltage	1	10	25
188293	G12-015-B2E	120VAC	$49.95	$44.95	$39.95
188285	G12-015-E3E	220VAC	49.95	44.95	39.95



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Variable Transformers & Power Transformers

110/220VAC Variable AC Transformers



- Input: 110VAC or 220VAC
- Power: 500-2000VA
- Output: 0-240VAC
- Banana/screw input terminals
- Universal US/European output plugs
- Lighted on/off power switch

Part No.	Fuse	Size (L" x W" x H")	Wt. (lbs.)
121275	3A/250V (P/N 69438)	5.3 x 7.3 x 7.0	10.4
129007	5A/250V (P/N 10401)	9.4 x 6.5 x 7.7	14.8
152581	10A/250V (P/N 69462)	9.0 x 7.0 x 7.7	19.8

Part No.	Description	1	10	50
121275	500VA transformer	$79.95	$69.95	$62.95
129007	1000VA transformer	119.95	109.95	99.95
152581	2000VA transformer	169.95	152.95	137.95

110VAC Variable AC Transformer



- Input voltage: 110VAC @ 60Hz
- Power: 550VA • Panel mount
- Output voltage: 0-140VAC
- Rated current: 5A
- Input/output terminals: binding post with 0.188" diameter post
- Size: 4.3"Dia. x 4.0"H
- Wt.: 6.8 lbs. • One-year warranty

Part No.	Description	1	10	50
152936	550VA variable	$69.95	$62.95	$56.95

110VAC Variable AC Transformer

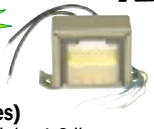


- Input voltage: 110VAC @ 60Hz (using pin 1-2) 110VAC @ 50Hz (using pin 1-4)
- Power: 320VA
- Matching input/output terminals: P/N 103667 and 109111 (disconnect .25" solderless terminals), pg 57
- Maximum current: 2.5A
- Panel mount
- Size: 2.8"Dia. x 2.1"H • Shaft length: 0.5"
- Weight: 2.5 lbs. • Oneπ-year warranty

Includes: 3 disconnect .25" solderless terminals

Part No.	Description	1	10	50
149323	320VA variable	$49.95	$44.95	$39.95

6VAC/9VAC Dual Output Power Transformer



12VA (Watts)

- Input voltage: 120VAC
- **Output voltage: 6VAC @ 500mA center tap (yellow wires); 9VAC @ 1A center tap (blue wires)**
- Size: 2.1"L x 3.2"W x 2.0"H • Weight: 1.3 lbs.

Part No.	Product No.	1	10	100
183089	YS57H-099FAA	$3.25	$2.92	$2.62

AEEC 110VAC Variable AC Transformers





- Input voltage: 110VAC @ 60 Hz
- Power: 500 and 2000VA
- Output voltage: 0 to 130VAC
- Output analog voltmeter
- Input connector: 3-prong plug with 5' cord
- Output conn.: 3-prong outlet type
- Lighted on/off power switch

169640: • 5A @ 250V fuse • Size: 8.3"L x 6.5"W x 7.0"H • Weight: 15.6 lbs.

169658: • 18A @ 250V fuse • Size: 9.8"L x 8.0"W x 7.0"H • Weight: 26.5 lbs.

Part No.	Description	1	10	50
169640	500V transformer ..	$59.95	$53.95	$48.95
169658	2000V transformer	119.95	109.95	99.95

120VAC to 120VAC Isolated Transformer



300VA (Watts)

- Input voltage: 120VAC @ 60Hz
- Input conn.: 5.5' cord w/ 2-prong plug
- Output voltage: 120VAC @ 2.5A (isolated)
- Size: 4.2"H x 3.2"W x 4.6"D • Weight: 7.0 lbs.

Part No.	Product No.	1	10	100
181315	ITR300	$34.95	$31.49	$27.95

115VAC & 115/230VAC Power Transformers

Power transformers have both single and dual voltage input and center tapped outputs. This makes them the perfect choice for power supply design or for use in transformer, rectifier, and filter circuits.

- Primary: 115VAC or 115/230VAC, 50/60Hz

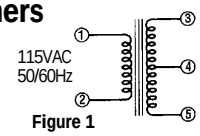


Figure 1

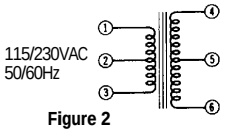


Figure 2

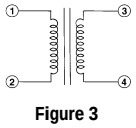
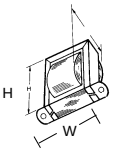


Figure 3





29225

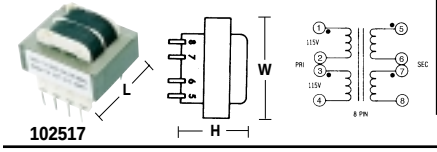
* Center tap

Part Number	Product Number	Triad Cross	Primary Voltage	Primary Color Code			Secondary Voltage	Secondary Color Code			Lead Type	Fig.	Dimensions (Ins.) L"	W"	H"	Weight (lbs.)	Pricing 1	10	100
29225	XFR122	F44X	115VAC	Yellow	—	Yellow	12.6VCT @ 2A	Blue	Red*	Black	Wire	1	2.12	2.33	1.96	1.5	$7.95	$6.95	$6.25
102120	XFR124	F181U	115VAC	Black	—	Black	12.6VCT @ 4A	White	Black*	White	Wire	1	2.53	3.08	2.61	2.7	9.95	8.95	7.95
112512	XFR242N	F229X	115VAC	Black	—	Black	24VAC @ 2A	White	—	White	Wire	3	1.75	2.75	2.25	1.8	7.95	6.95	6.25
99653	XFR242	—	115VAC	Red	—	Red	24.6VCT @ 2A	Blue	Yellow*	Blue	Wire	1	2.44	2.70	2.30	2.5	7.95	6.95	6.25
102162	XFR6102	F314X	115/230VAC	Black	Yellow*	Red	6.3VCT @ 1.2A	White	Black*	White	Wire	2	1.56	1.96	1.67	0.8	5.95	5.35	4.79
105523	XFR0910	—	115/230VAC	Black	White*	Red	9VCT @ 1A	Blue	Black*	Blue	Wire	2	1.79	1.96	1.66	0.7	5.95	5.35	4.79
102154	XFR1220	F344X	115/230VAC	Black	Yellow*	Red	12.6VCT @ 2A	White	Black*	White	Wire	2	2.35	2.32	1.97	1.5	7.95	6.95	6.25
149770	XFR1240	F3181U	115/230VAC	Black	Red*	Yellow	12.6VCT @ 4A	White	Black*	White	Wire	2	2.45	2.70	2.24	2.2	9.95	8.95	7.95
105531	XFR1810	—	115/230VAC	Blue	Red*	Black	18VCT @ 1A	Yellow	Black*	Yellow	Wire	2	2.32	2.05	1.90	1.2	4.95	4.25	3.49
149956	XFR1820	—	115/230VAC	Black	Red*	Yellow	18VCT @ 2A	White	Black*	White	Wire	2	2.26	2.66	2.28	1.8	7.95	6.95	6.25
102111	XFR2410	F346X	115/230VAC	Black	Yellow*	Red	24VCT @ 1A	White	Black*	White	Wire	2	2.22	2.33	1.97	1.5	6.95	6.25	5.59
102103	XFR2520	F341X	115/230VAC	Black	White*	Red	25.2VCT @ 2A	Orange	Black*	Orange	Wire	2	2.45	2.67	2.26	2.8	9.95	8.95	7.95
149796	XFR2820	F3185U	115/230VAC	Black	Red*	Yellow	28VCT @ 2A	White	Black*	White	Wire	2	2.45	2.70	2.24	2.3	9.95	8.95	7.95

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

Non-concentrically wound with primaries and secondaries side-by-side providing low capacitive coupling.

- Primary: 115/230VAC, 50/60Hz
- PC terminal pin spacing for accurate placement

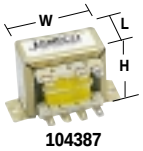


102517

115/230VAC Split-Bobbin Power Transformers

Part Number	Product Number	Triad Cross	Input Voltage	VA Cap	Individual Output	Parallel Output	Series Output	Dimensions L"	W"	H"	Wt. (lbs.)	Pricing 1	10	100
102517	XFR1602SB	FS16150	115/230	2.4	8V @ .15A	8V @ .30A	16VCT @ .15A	1.17	1.38	1.20	0.3	$5.95	$5.35	$4.75
157702	EU06-2-010	FS10600	120/240	6.0	5V @ .60A	5V @ 1.20A	10VCT @ .60A	1.50	1.88	1.04	0.3	2.75	2.45	2.20
176090	SPT41240-120	FS24250	115/230	6.0	12V @ .25A	12V @ .50A	24VCT @ .25A	1.33	1.63	1.59	0.5	5.95	5.35	4.75
102533	XFR1205SB	FS12500	115/230	6.3	6.3V @ .50A	6.3V @ 1.00A	12.6VCT @ .50A	1.31	1.62	1.30	0.4	6.49	5.75	4.95
102592	XFR2405SB	FS24500	115/230	12.0	12V @ .50A	12V @ 1.00A	24VCT @ .50A	1.58	1.90	1.46	0.7	6.49	5.75	4.95

- Quick connect transformers are bobbin wound for smaller size and reduced electrostatic shielding requirements
- Terminals: quick connect, solder
- Input voltage: 115/230VAC, 50/60Hz



104387

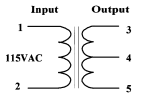


Fig. 1



Fig. 2

115VAC & 115/230VAC Quick Connect Power Transformers

Part Number	Product Number	Triad Cross	Fig.	Input Voltage	Output Voltage	VA Cap	Size of Connect	Dimensions L"	W"	H"	Wt. (lbs.)	Pricing 1	10	100
164110	241-3-10	F310	1	115VAC	10VCT @ 0.25A	2.4	0.187"	.59	1.45	2.00	0.2	$2.49	$1.95	$1.49
104387	XFR1225Q	FD612	2	115/230VAC	12.6VCT @ 2.5A	31.5	0.187"	1.75	2.33	2.00	1.3	8.95	7.95	6.95
104408	XFR1635Q	FD716	2	115/230VAC	16VCT @ 3.5A	56.0	0.187"	2.00	2.70	2.30	1.8	9.95	8.95	7.95
101864	XFR2424Q	FD724	2	115/230VAC	24VCT @ 2.4A	57.6	0.187"	1.87	2.70	2.25	1.7	8.95	7.95	6.95
176102	XFR2440Q	FD824	2	115/230VAC	24VCT @ 4.0A	96.0	0.187"	1.74	3.10	2.62	3.6	12.95	11.49	9.95
104416	XFR3615Q	FD736	2	115/230VAC	36VCT @ 1.5A	54.0	0.187"	1.90	2.70	2.30	1.8	8.95	6.95	5.56

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Dual Output Toroidal Transformers

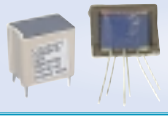
- Input voltage: 115/230VAC @ 47/400Hz • 13% load regulation
- Secondary voltage tolerance: within 3% at nominal input and full load
- 8-32 mounting holes on top and bottom

† **171310:** Output voltage: 15VAC @ 0.66A; 36VAC @ 1.1A



Wire Terminal

Part Number	VA	Output Voltage	Output Terminals	Output (VAC @ A) Parallel	Serial	Size (D"xH")	Wt. (lbs.)	Pricing 1	10	25
168372	15	9VAC @ 0.83A	12" Wires	9 @ 1.66	18 @ 0.83	2.7 x 1.2	0.9	$4.95	$4.49	$3.95
171336	50	12VAC @ 2.0A	Terminals	12 @ 4.00	24 @ 2.00	3.6 x 1.6	1.9	6.95	5.95	4.95
171310	50	15VAC @ 0.66A†	Terminals	—	—	3.6 x 1.5	2.1	3.95	3.49	2.95
168364	130	35VAC @ 0.85A	22" Wires	35 @ 1.70	70 @ 0.85	4.7 x 2.0	4.1	3.95	3.49	2.95



See page 28 & 29 for our selection of Audio, Split-Bobbin & Current Transformers



Power Entry Filters and AC Plug Connectors

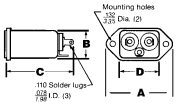


Fig.1 (Solder Terminals)

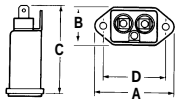


Fig. 2 (Fast-on Terminals)

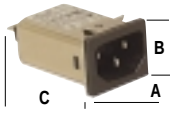


Fig.3 (146907)

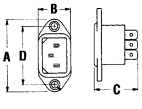


Fig. 4

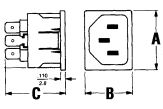


Fig. 5

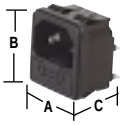


Fig. 6 (117444)

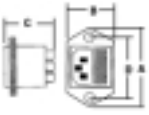


Fig. 7

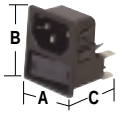


Fig. 8

- Frequency: 50/60Hz

[1] Includes spare fuse holder (Fuse type 5mm x 20mm (250V))



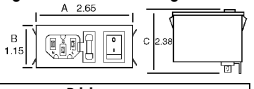


Fig. 9

Part Number	Product Number	Corcom Cross	Description	Fig.	Current (Amps)	Voltage (VAC)	Terminals	Agency Approvals	Terminal Size	Dimension (ins.) A	B	C	D	Pricing 1	10	100	500
150615	03AC1	3EF1	Power entry filter, straight (flanged)	1	3	250	solder	UL/CSA/VDE	.16"	1.89	0.88	2.58	1.58	$4.49	$3.95	$3.25	$2.95
146907	03DENG3B		Power entry filter (snap-in)	3	3	250	fast-on	UL/CSA/VDE	.25"	1.25	0.95	2.23	N/A	3.49	2.65	2.12	1.80
40601	03AE1	3EF1F	Power entry filter, straight (flanged)	2	3	250	fast-on	UL/CSA/VDE	.25"	1.97	0.90	2.16	1.58	4.49	3.95	3.49	2.75
180620	06AR2D		Power entry filter, fused w/ switch (snap-in)	9	4	250	fast-on	UL/CSA/VDE/CE	.25"	2.65	1.15	2.38	N/A	4.95	4.05	3.35	2.79
42454	06AC1	6EF1	Power entry filter, straight (flanged)	1	6	250	solder	UL/CSA/VDE	.16"	1.96	0.88	2.06	1.58	4.49	3.95	3.49	2.95
63132	06AE1	6EF1F	Power entry filter, straight (flanged)	2	6	250	fast-on	UL/CSA/VDE	.16"	1.96	0.88	2.06	1.58	4.95	4.49	3.75	3.49
167441	10AE1	10EF1F	Power entry filter, straight (flanged)	2	10	250	fast-on	UL/CSA	.25"	1.97	0.89	2.65	1.58	4.95	4.05	3.35	2.36
165016	SUP-J15G-E-2		Power entry filter straight (flanged)	1	15	250	solder	UL/CSA/VDE	.16"	1.89	0.88	2.18	1.58	2.25	1.95	1.49	1.25
16651	JR101		AC power inlet (male) flanged	4	15	250	fast-on	UL/CSA/VDE	.187"	1.96	0.89	1.07	1.58	.59	.49	.35	.29
147900	P0707		AC power inlet (male) flanged	4	15	250	solder	UL/CSA/VDE	.16"	1.96	0.89	1.04	1.58	.75	.59	.49	.39
147109	42R02		AC power inlet (male) snap-in	5	15	250	fast-on	UL/CSA/VDE	.25"	1.22	0.94	1.13	N/A	.69	.55	.45	.35
173770	6200-21		AC power inlet (male) fused (flanged)	7	10	250	fast-on	UL/CSA/VDE	.136"	1.73	1.34	1.00	1.41	.99	.85	.69	.55
117444	0717		AC power inlet (male) fused (snap-in)[1]	6	10	250	fast-on	UL/CSA/VDE	.187"	1.18	1.30	1.21	N/A	1.49	1.35	1.09	.99
177332	PF1125		AC power inlet (male) fused (snap-in)[1]	6	10	250	fast-on	UL/CSA/VDE	.25"	1.22	1.34	1.24	N/A	.79	.72	.65	.59
184903	42R363152IOU		AC power inlet (male) w/ switch (snap-in)	8	15	250	fast-on	UL/CSA/VDE	.25"	1.30	1.58	1.42	N/A	1.49	1.25	.95	.79
171563	P3520		AC power outlet (female) flanged	4	6	250	solder	UL/CSA/VDE	.11"	1.97	1.14	1.32	1.58	.29	.24	.21	.19
174246	SC11		AC power outlet (female) flanged	4	15	250	fast-on	UL/CSA/VDE	.187"	.197	1.17	1.34	1.58	.89	.69	.55	.45

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Ni-Cad Batteries

Nickel-Cadmium batteries are rechargeable, sealed cells.

- Can be used for cyclic, trickle or float charge
- Recommend P/N 147598 battery charger, pg 172



32627


119116


101653

Part No.	Product No.	Description	Voltage	Amps	1	10	25	100
32627	S3300	AA	1.2V	500mA-h	$1.95	$1.75	$1.49	$1.25
126720	351FT	2-lead (pin)	3.6V	60mA-h	3.95	3.49	2.95	2.49
119116	3/V60R	3-lead (pin)	3.6V	60mA-h	3.95	3.49	2.95	2.49
101653	NA101-1	2-lead (eyelet)	3.6V	60mA-h	5.49	4.95	3.95	3.25

Lithium, Silver Oxide, Zinc Chloride and Alkaline Batteries

Applications: personal computers, workstations, test equipment, feature telephones, copiers, fax machines, video scramblers / descramblers and remotes.

SALE


151087


151095


11789


38543


33443


33371


33398

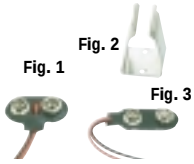
Part Number	Product Number	Description (V/Amp-hours/Dia.)	Battery Type	Terminals/Connection	Pricing 1	10	25	100
151087	AA	1.5V/0.7A-h/.545"	Zinc chloride	Barrel pressure fit (standard AA)	$.39	$.32	$.25	$.19
151095	GF6F22	9.0V/0.3A-h/1.0"L	Zinc chloride	Standard 9V with snaps	1.25	.99	.79	.65
140783	357	1.55V/1.60A-h/.454"	Silver oxide	Button cell	1.75	1.49	1.25	1.09
150965	840	4.5V/600mA-h	Akaline	Battery pack w/ connector (Apple®)	8.95	7.95	6.95	5.49
126762	AA101-4	4.5V/2.2A-h	Akaline	Battery pack w/ plug (clock/memory)	4.79	4.35	3.89	3.49
11789	CR2325	3V/165mA-h/.906"	Lithium	Coin cell (clock/memory)	1.95	1.75	1.49	1.25
14162	CR2032	3V/180mA-h/.787"	Lithium	Coin cell (clock/memory)	1.25	1.09	.89	.65
33371	TL5101P	3.6V/.85A-h/.579"	Lithium	Barrel w/ leads (clock/memory)	5.95	5.35	4.79	4.25
126754	TL5101S	3.6V/.85A-h/.579"	Lithium	Half AA (Macintosh®)	7.95	6.95	6.25	5.59
33398	TL5104P	3.6V/1.9A-h/.579"	Lithium	Barrel w/ lead (clock/memory)	7.95	6.95	6.25	5.59
146114	TL2100S	3.6V/1.9A-h/.579"	Lithium	Barrel pressure fit (clock/memory)	6.95	5.95	4.95	4.49
33427	TL5242W	3.6V/1.9A-h	Lithium	Battery pack w/ plug (PC)	9.95	8.95	7.49	6.49
33443	TL5293W	6.0V/1.9A-h	Lithium	Battery pack w/ plug (PC)	10.95	9.95	8.95	7.95

Coin Cell Battery Holders

Part No.	Product No.	Description	1	10	100	500
38535	2S2032	Battery holder for CR2032 (PC mount)	$.59	$.49	$.35	$.29
38543	2S2325	Battery holder for two BR2325 or one 2354 (PC mount)	.75	.65	.55	.39

9 Volt Battery Snaps and Clip

- Use with standard 9 volt batteries • Fully insulated; contacts are nickel-plated brass • Female inner Dia. = 0.215"
- Leads are color-coded, stripped and pre-tinned • Snap: male outer diameter = 0.225" ✳ **10 piece minimum**



Part Number	Fig.	Description	Dimensions (in.) L x W x H			Pricing 1	10	100	1000
11279	1	3", 26 AWG, 6 prong battery snap	1.0	.50	–	✳	$.17	$.13	$.11
105793	2	Battery holder clip (9 volt)	.63	.71	1.2	✳	.15	.12	.09
109153	3	6", 26 AWG, 6 prong battery snap	1.0	.50	–	✳	.15	.12	.09
101469	3	10", 26 AWG, 4 prong battery snap	1.0	.50	–	.29	.22	.17	.14

AIRPAX Circuit Breakers

- Magnetic circuit breakers
- 250 VAC; 50/60Hz
- Long delay
- UL, CSA approved

183476/183484: Single pole
- Size: 0.75"W x 2.5"H x 2.5"D

183492: Two pole
- Size: 1.50"W x 2.5"H x 2.5"D

183505: Three pole
- Size: 2.25"W x 2.5"H x 2.5"D


183484


183492

Part No.	Airpax No.	Amps	1	10	50
183476	UPL1-1-62-103	10A	$26.95	$24.95	$22.49
183484	UPL1-1-62-153	15A	26.95	24.95	22.49
183492	UPL11-1-62-203	20A	69.95	62.95	56.95
183505	UPL111-1-62-302	30A	109.95	99.95	89.95

4 AA Battery Holder

- Solder tabs
- 6" wire lead with connector
- Size: 2.3"L x 2.5"W x 0.64"H



Part No.	Description	1	10	100	1000
105857	Plastic battery holder	$.89	$.69	$.59	$.49

TEMPEST Lead Acid Batteries

- .187" (except P/N 159679 – .470") color-coded terminals
- Sealed • UL approved • Rechargeable
- Two-year warranty

***159679:** Bolt terminals w/ bolt & nut set

Tempest is an ISO-9001 Certified Company


155328


155336


159679

Part Number	Product Number	Nom. Volt.	Amp-Hrs.	Charging Voltage (V) Standby	Cyclic	Cross Reference Panasonic	YUASA	Eagle Picher	Size (Ins.) L x W x H	Wt. (lbs.)	Pricing 1	10
155328	TR4-6	6	4A-h	6.75-6.9	7.2-7.5	LCR6VP	NP4-6	CF16V4	2.8 x 1.9 x 4.0	1.8	$10.49	$9.25
175054	TR10-6	6	10A-h	6.75-6.9	7.2-7.5	LCR6V10P	NP10-6	CFM6V10	5.9 x 2.0 x 3.8	4.3	15.95	14.49
159661	TR2.3-12	12	2.3A-h	13.5-13.8	14.4-15	LCR12V2.2P	NP2.3-12	CF12V1.5	7.0 x 1.3 x 2.3	1.9	12.95	11.49
155336	TR4-12	12	4A-h	13.5-13.8	14.4-15	LCR12V4PF	NP412	CF12V4	3.6 x 2.8 x 4.0	3.4	15.95	13.49
155344	TR7-12	12	7A-h	13.5-13.8	14.4-15	LCR12V7.2BP	NP712	CFM12V65	6.0 x 2.6 x 4.0	5.9	17.95	14.95
168188	TR12-12	12	12A-h	13.5-13.8	14.4-15	PS12120	—	CFM12V12	5.9 x 3.8 x 3.8	9.0	29.95	24.95
159679*	TR18-12	12	18A-h	13.5-13.8	14.4-15	LCR12V17BP	NPG18-12	CF12V18	7.1 x 3.0 x 6.6	13.8	39.95	33.95

JAMECO ELECTRONICS

For additional batteries and accessories – see page 84

Rechargeable NiMH Batteries & Battery Chargers



185252 185308 185295

- Replaces thousands of throwaway alkaline batteries
- Twice the power of NiCad batteries
- More than 1,000 charges

185279: 700mAH **185252/185261:** 1600mAH
185295: 5-hour charger

Part No.	Description	1	10	25	100
185279	AAA (2 pack)	$7.95	$7.19	$6.49	$5.95
185252	AA (2 pack)	7.95	7.19	6.49	5.95
185261	AA (4 pack)	13.95	12.49	11.25	9.95
185308	Compact chrgr	21.95	19.95	17.95	15.95
185295	Universal chrgr	21.95	19.95	17.95	15.95

Cellular Phone Charger

- Charge your battery while driving by plugging the saver into your cigarette lighter
- 6' coiled cord
- Color: black



Part No.	For Motorola Models	1	10	25
122681	PT-500/5200/7200	$4.95	$3.95	$3.49

External ZIP Drive NiMH Battery Pack



- Lightweight portable battery pack
- Powers your external zip drive for up to 3 hours
- Convenient built-in charging; plugs directly to wall outlet (2-prong plug)
- Output connector: 2.3mm x 5.5mm female plug
- 6V @ 1Ah • Weight: 0.7 lbs.
- Size: 4.5"L x 3.4W x 1.0"H

See page 135 for ZIP Drive

Part No.	Description	1	10
190166	External battery pack	$34.95	$31.49

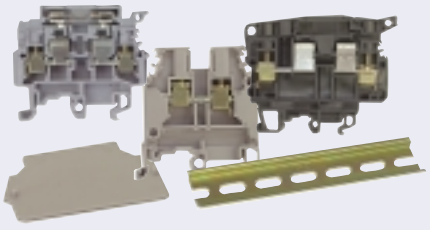
Protect Yourself from Rolling Blackouts and Power Outages

See pages 159-161 for our complete line of Power Protection Products from name brand manufacturers like Tripp Lite and APC



Mountable Fuse Holder Blocks, DIN Rails and Terminal Blocks

– see page 54



5mm x 20mm Miniature Fuses

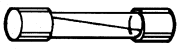
Slow Blow Fuses (250V)
GMA Fuses



- For M4/M8 fuse holder terminal blocks, pg 54

Part No.	Amps	Mfr.	1	10	100
186175	500mA	Entrelec ..	$1.09	$.99	$.89
186191	1 amp	Entrelec	1.09	.99	.89
186204	2 amp	Entrelec	1.09	.99	.89
186183	3.15 amp	Entrelec	1.09	.99	.89
186212	5 amp	Entrelec	1.09	.99	.89

Fast Acting Fuses (250V)
GMA Fuses



- Recommended for new design

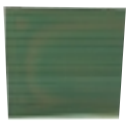
✳ **Prepackaged: order in increments of 10, 100 or 1000**

Part No.	Amps	Mfr.		10	100	1000
103886	250mA	Various	✳	$.17	$.13	$.10
102040	500mA	Various	✳	.17	.13	.10
103907	1 amp	Various	✳	.17	.13	.10
103915	2 amp	Various	✳	.17	.13	.10
103923	3 amp	Various	✳	.17	.13	.08
103931	5 amp	Various	✳	.17	.13	.08

Photovoltaic Solar Panels

- Output connection: conductive film requiring pressure contact or use of 3M conductive epoxy

141751: • Rated 9.5VDC (open circuit); 9VDC @ 0.06A (in direct sunlight)
• Size: 6"L x 6"W x 0.1"T



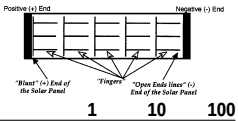
106702

106702: • Rated 18.16VDC (open circuit); 12.18VDC @ 0.141A (in direct sunlight)
• Size: 12"L x 12"W x 0.1"T • Weight: 1.6 lbs.

Part No.	Description	1	10	50
141751	0.5W solar panel	$6.95	$6.25	$5.59
106702	1.7W solar panel	19.95	17.95	15.95

Photon Technologies Flexible Thin-Film Solar Panels

- For recharging NiCad, Nickel Metal Hydride and Gel-cell batteries
- Size: 4.5"L x 1.46"W



Part No.	Output	1	10	100
172831	3VDC @ 10mA	$3.49	$3.29	$2.95
171061	3VDC @ 40mA	8.49	7.49	6.49

Miniature Glass Solar Panel

- Open circuit voltage: 16.5VDC in full sunlight
- Operating temperature range: -5˚ to +40˚C
- Operating voltage: 12VDC @ 3mA
- Size: 3.6"L x 1.0"W



Part No.	Description	1	10	50
171985	Glass solar panel ...	$6.75	$5.75	$4.95

Jameco is your best source for new and out-of-production electronic products at value prices

.25" x 1.25" Standard Fuses

Slow Blow Fuses (250V)
MDL/3AG Fuses



Part No.	Amps	Mfr.	1	10	100	1000
25654	250mA	Various	$.45	$.35	$.29	$.22
25689	500mA	Various	.45	.35	.29	.25
25638	1 amp	Various	.45	.35	.29	.22
25646	2 amp	Various	.45	.35	.29	.22
69534	3 amp	Various	.55	.45	.35	.29
25671	5 amp	Various	.45	.35	.29	.22
69569	10 amp	Various	.45	.35	.29	.22

Fast Acting Fuses (250V)
AGC/3AG Fuses



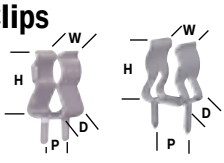
- For ML10/13 fuse holder terminal blocks, pg 54

✳ **Prepackaged: order in increments of 10, 100 or 1000**

Part No.	Amps	Mfr.	1	10	100	1000
69403	250mA	Various..... ✳		$.15	$.11	$.07
186221	250mA	Entrelec	1.49	1.15	.95	—
10410	500mA	Various..... ✳		.15	.11	.07
186239	630mA	Entrelec	1.49	1.35	1.19	—
10372	1 amp	Various..... ✳		.17	.12	.09
186247	1 amp	Entrelec	1.49	1.35	1.19	—
186255	1.6 amp	Entrelec	1.49	1.35	1.19	—
10381	2 amp	Various..... ✳		.15	.11	.08
186263	2.5 amp	Entrelec	1.49	1.35	1.19	—
69438	3 amp	Various..... ✳		.15	.11	.07
186271	4 amp	Entrelec	1.49	1.35	1.19	—
10401	5 amp	Various..... ✳		.15	.11	.07
186280	6.3 amp	Entrelec	1.49	1.35	1.19	—
69462	10 amp	Various..... ✳		.15	.11	.08
186298	10 amp	Entrelec	1.49	1.35	1.19	—
186301	16 amp	Entrelec	1.49	1.35	1.19	—

Fuse Clips

5mm Miniature



102859 119280

- Accepts 5mm fuses

102859: Size: .37"H x .25"W x .21"D x .19"P
119280: Size: .33"H x .25"W x .20"D x .21"P

✳ **Prepackaged: order in increments of 10, 100 or 1000**

Part No.	Description		10	100	1000
102859	Front leads	✳	$.12	$.09	$.05
119280	Side leads	✳	.05	.04	.03

.25" Standard



102841 164700 164697

- Accepts .25" standard fuse

102841: Size: .32"H x .27"W x .25"D x .23"P

PCB Type

Part No.	Description		10	100	1000
102841	Fuse clip (10A)	✳	$.12	$.09	$.06

Screw Mount

164700/164697: Size: .30"H x .30"W x .50"D

Part No.	Description		10	100	1000
164700	450 fuse clip	✳	$.07	$.017	$.01
164697	900 fuse clip	✳	.03	.02	.01

Panel Mount Fuse Holders

.25" x 1.25" Standard

- Straight solder terminal
- 10A @ 250VAC

120993: Size: 1.95"L x 0.71"Dia. (mounting hole: 0.58"Dia.)
18702: Size: 2.05"L x 0.71"Dia. (D-style mounting hole: 0.58"Dia. x 0.52" Flat)



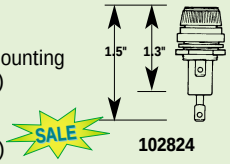
Part No.	Cap Type	1	10	100
120993	Thumbscrew cap	$.65	$.49	$.35
18702	Thumbscrew cap, UL/CSA	.99	.85	.65

5mm x 20mm Miniature

- Straight solder terminal

150463: • 6A @ 250VAC
- Size: 1.5"L x 0.6"Dia. (mounting hole 0.5"Dia. x 0.43"Flat)

102824: • 10A @ 250VAC
- Size: 1.5"L x 0.6"Dia. (mounting hole 0.5"Dia.)



Part No.	Mounting Hole	1	10	100
150463	Tumbscrew cap.....	$.85	$.69	$.55
102824	Tumbscrew cap, UL/CSA ...	.89	.69	.45

In-Line Fuse Holders

- Built-in spring ensures good fuse connection
- Vinyl covered wire with stranded copper center



.25" x 1.25" Standard

Part No.	AWG	Wire Lengths	Wire Color	Body Size(L)	Body Color	1	10	100
109321	22	3.5/3"	red	2.4"	black	$.45	$.35	$.25
102867	20	3/3"	red	2.2"	white	.59	.49	.35
151917	18	6/6"	red	2.4"	white	.65	.55	.45
108783	16	21/26"	org.	2.2"	black	.79	.65	.49
108791	14	19/25"	red	2.5"	black	.79	.65	.49

5mm x 20mm Miniature

Part No.	AWG	Wire Color	Body Size (L)	1	10	100
109330	20	Red	1.8"	$.55	$.45	$.35

5mm x 20mm Miniature Low Profile Fuse Holder

- Accepts 5 x 20mm fuses
- 10A @ 250VAC
- UL/CSA recognized
- Size: 1.4"L x 0.6"Dia.
- D Style mounting hole: 1 ea. 0.5"Dia x .46" flat



Part No.	Description	1	10	100
102832	Fuse holder UL/CSA	$1.25	$.99	$.79

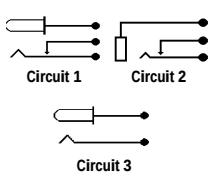
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Male & Female Power Jacks

- Use with mating power plugs, below
- Dimensions do not include barrel

✳**Prepackaged: please order in increments of 10, 100 or 1000**

Terminals	Code
Solder eyelet	A
PC board	B
Mounting	**Code**
Panel	C
PCB	D
Panel & PCB	E
Cable	F

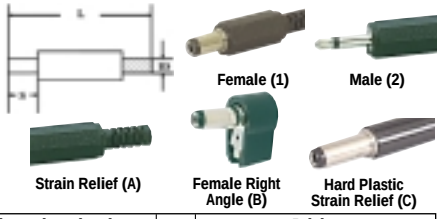




Part Number	Product Number	Description (Jack)	Dimensions H x W x D (mm)	Type/ Mount	Circuit/ Terminals	Mating Plug (below)	Pricing 1	10	100	1000
101194	PP024	1.3 mm male	6.0 x 6.0 x 9.0	10/D	1/B	1.3 mm female	$.49	$.39	$.32	$.25
101178	PP014	2.1 mm male	10.9 x 9.0 x 14.5	1/D	1/A	2.1 mm female	.49	.39	.32	.22
137672	PP013	2.1 mm male	10.9 x 9.0 x 14.5	6/D	3/A	2.1 mm female	.49	.39	.32	.22
151589	DPJ-02IA	2.1 mm male	13.0 x 12.6 Dia.	9/C	1/A	2.1 mm female	.69	.59	.49	.39
151554	DPJ-026A	2.1 mm male	15.1 x 8.0 Dia.	8/E	1/A	2.1 mm female	1.09	.89	.75	.65
159610	PJ1014A	2.1 mm male	35.8 x 12.6 Dia.	13/F	3/A	2.1 mm female	.89	.75	.65	.49
109428	PJ025PCB	2.5 mm male	8.0 x 12.0 x 9.6	5/D	1/A	2.5 mm female	✳	.05	.03	.02
101186	PP014A	2.5 mm male	11.0 x 9.0 x 14.5	1/D	1/A	2.5 mm female	.45	.35	.29	.22
102091	PP15A	2.5 mm male	20.4 x 9.3 x 11.7	2/C	1/A	2.5 mm female	✳	.09	.07	.05
151562	DPJ-026	2.5 mm male	15.1 x 8.0 Dia.	8/E	1/A	2.5 mm female	.89	.75	.65	.49
159505	PJ1015A	2.5 mm male	35.8 x 12.6 Dia.	13/F	3/A	2.5 mm female	.89	.75	.65	.49
169498	PJ0253	2.5 mm female	9.0 x 7.9 x 10.8	3/E	2/A	2.5 mm male	✳	.07	.06	.05
145648	PJ0351	3.5 mm female	9.7 x 10.0 x 15.5	7/D	2/A	3.5 mm male	.19	.17	.16	.14
164953	PJ0351N	3.5 mm female	9.9 x 10.2 x 15.4	11/D	2/A	3.5 mm male	✳	.15	.12	.08
101143	PJ0352	3.5 mm female	10.0 x 10.0 x 18.5	3/E	2/A	3.5 mm male	.39	.32	.25	.17
109495	PJ035PM	3.5 mm female	10.5 x 9.0 x 8.8	4/C	2/A	3.5 mm male	.39	.32	.25	.19
165729	PJ0354	3.5 mm female	8.9 x 5.7 Dia.	12/C	2/A	3.5 mm male	.49	.39	.35	.29

Male & Female Power Plugs

- Use with mating power jack found in table, above
- Solder eyelets 1mm diameter
- Threaded screw-on housing (strain relief)
- Use with AC/DC wall transformers, pgs 67-69
- Use 24 AWG 2 conductor wire, P/N 100280, to make custom length power cables, pg 90
- Shield crimp tabs



Part Number	Product Number	Description Plug ID x OD (mm)	Dimensions (mm) S(shaft) x L x ID(strain relief)	Type	Pricing 1	10	100	1000
71191	PP137	1.3 mm x 3.5 mm female plug	9.6 x 43.9 x 4.8 (black)	1/A	$.55	$.41	$.30	$.24
191484	PP049W	2.1 mm x 5.5 mm female plug	9.6 x 43.9 x 4.5 (white)	1/A	.49	.39	.32	.25
28759	PP049	2.1 mm x 5.5 mm female plug (P205)	8.5 x 41.4 x 4.6 (black)	1/A	.49	.39	.32	.25
147328	PP049L	2.1 mm x 5.5 mm female plug (P205L)	14.0 x 46.4 x 4.6 (black)	1/A	.45	.35	.29	.22
138587	PJ021R	2.1 mm x 5.5 mm female right angle plug	12.0 x 22.5 x 3.9 (black)	1/B	.69	.59	.39	.35
190537	PP109S	2.5 mm x 5.5 mm female plug (P206S)	9.0 x 43.5 x 4.8 (black)	1/A	.45	.35	.29	.17
28767	PP109	2.5 mm x 5.5 mm female plug (P206)	10.1 x 45.4 x 4.3 (black)	1/A	.45	.35	.29	.22
191492	PP109W	2.5 mm x 5.5 mm female plug	10.1 x 45.4 x 4.5 (white)	1/A	.49	.39	.32	.25
147336	PP109L	2.5 mm x 5.5 mm female plug (P206L)	13.6 x 47.5 x 4.8 (black)	1/A	.45	.35	.29	.22
168241	PP109N	2.5 mm x 5.5 mm female plug	13.7 x 36.5 x 3.9 (black)	1/C	.45	.35	.29	.22
101135	PJ1025	2.5 mm male plug (P201)	11.1 x 49.0 x 4.3 (black)	2/A	.45	.35	.29	.19
147459	PJ1025L	2.5 mm male plug (P201L)	10.5 x 48.0 x 5.0 (black)	2/A	.20	.18	.16	.14
101151	PJ1035	3.5 mm male plug (P202)	13.8 x 51.8 x 4.2 (black)	2/A	.45	.35	.29	.19
147344	PJ1035L	3.5 mm male plug (P202L)	14.1 x 51.0 x 5.2 (black)	2/A	.45	.35	.29	.22

Auto Power Plugs

- Screw assembly
- Plugs directly into cigarette lighter
- Accepts .25" x 1.25" fuse (not included)
- All include strain relief



***124759:** pigtail end

Part No.	Description	1	10	100
115001	W/ fuse holder	$.99	$.79	$.65
161779	W/ strain relief only	.55	.45	.35
124759*	W/ fuse & 3' cord	1.75	1.49	.99
164304	W/ fuse (reversible)	.32	.29	.26

Automobile Power Plug Splitter

- Input: cigarette adapter; non-fused
- Splits out into two 5" female automobile type receptacles

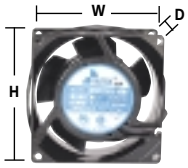


Part No.	Description	1	10	50
123182	Power plug splitter ..	$2.95	$2.49	$2.25

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AC Tube Axial Fans

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT



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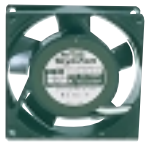
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- Agency approved fans
- Ball and sleeve bearings
- Air flow from 10 to 226 CFM
- Power input by lead wires or terminals



106585



131983

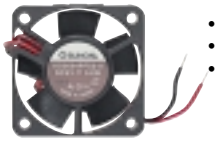
Part Number	Manufacturer	Product Number	Voltage	Dimensions (W" x H" x D")	Air Flow (CFM)	Bearing Ball/Sleeve	Current (mA)	Power (Watts)	Agency Approvals	Noise (dba)	Connection (Leads)	Pricing 1	10	50	100
162704	Globe Motors	A-24-B12A-15W3-000	115 VAC	2.36 x 2.36 x 1.20	10	Ball	38	4.0	UL/CSA/CE	29	12" leads	$6.95	$6.25	$5.59	$4.95
146077	Common Wealth	FP108AX-S1-B	115 VAC	3.15 x 3.15 x 1.00	23	Ball	140	14.0	UL/CE	29	12" leads	12.95	11.95	10.95	9.95
75408	Fulltech	UF80B12SWH	115 VAC	3.15 x 3.15 x 1.00	24	Sleeve	140	14.0	UL/CSA/TUV/CE	35	12" leads	11.95	10.95	9.95	8.95
111915	Fulltech	UF80A12SWL	115 VAC	3.15 x 3.15 x 1.50	25	Sleeve	110	12.0	UL/CSA/TUV/CE	32	12" leads	11.95	10.95	9.95	8.95
16977	Fulltech	UF80A12BWL	115 VAC	3.15 x 3.15 x 1.50	25	Ball	110	11.0	UL/CSA/TUV/CE	32	12" leads	12.95	11.95	10.95	9.95
16969	Fulltech	UF80A12BTL	115 VAC	3.15 x 3.15 x 1.50	25	Ball	110	12.0	UL/CSA/TUV/CE	32	terminals	13.95	12.95	11.95	10.95
102904	Fulltech	UF80A12BWH	115 VAC	3.15 x 3.15 x 1.50	29	Ball	120	12.0	UL/CSA/TUV/CE	36	12" leads	13.95	12.95	11.95	10.95
191564	Nidec	TA300AC-AC30477	115 VAC	3.15 x 3.15 x 1.50	32	Ball	104	9.0	UL/CSA/TUV	51	terminals	14.95	13.95	12.95	11.95
75432	Sunon	SF11592A-1092HSL	115 VAC	3.63 x 3.63 x 1.00	36	Sleeve	130	12.0	UL/CSA/TUV/CE	39	12" leads	13.95	12.95	11.95	10.95
75459	Sunon	SF11592A-1092HBT	115 VAC	3.63 x 3.63 x 1.00	37	Ball	110	12.0	UL/CSA/TUV/CE	40	terminals	14.95	13.95	12.95	11.95
124062	Sunon	SP101AT1122HBT	115 VAC	4.68 x 4.68 x 1.00	78	Ball	180	18.0	CSA/TUV/CE	46	terminals	14.95	13.95	12.95	11.95
118965	Fulltech	UF12A12BTL1	115 VAC	4.68 x 4.68 x 1.50	64	Ball	85	8.4	UL/CSA/TUV/CE	37	terminals	12.95	11.95	10.95	9.95
109874	Fulltech	UF12A12STL	115 VAC	4.68 x 4.68 x 1.50	81	Sleeve	150	15.0	UL/CSA/TUV/CE	38	terminals	11.95	10.95	9.95	8.95
111894	Common Wealth	FP108-1-S1/W	115 VAC	4.68 x 4.68 x 1.50	105	Sleeve	180	17.0	UL/CSA/CE	47	12" leads	11.95	10.95	9.95	8.95
106585	Common Wealth	FP108-1-S1/T	115 VAC	4.68 x 4.68 x 1.50	105	Sleeve	140	12.0	UL/CSA/CE	35	terminals	12.95	11.95	10.95	9.95
16934	Common Wealth	FP108-1-S1-B	115 VAC	4.68 x 4.68 x 1.50	105	Ball	200	17.0	UL/CSA/TUV/CE	47	terminals	13.95	12.95	11.95	10.95
102883	Sunon	SP100A-1123XBT	115 VAC	4.68 x 4.68 x 1.50	117	Ball	240	20.0	UL/CSA/TUV/CE	50	terminals	14.95	13.95	12.95	11.95
108724	Fulltech	UF15AC12BTH	115 VAC	6.75 x 5.90 x 1.50	211	Ball	230	28.0	UL/CSA/TUV/CE	58	terminals	29.95	26.95	23.95	21.49
189683	Fulltech	UF15PC12BTH	115 VAC	6.75 x 5.90 x 2.00	226	Ball	250	30.0	CSA	58	terminals	29.95	26.95	23.95	21.49
174932	NMB	3115FS-23T-B10	220 VAC	3.15 x 3.15 x 1.50	25	Ball	30	4.6	UL/CSA/TUV/CE	25	terminals	9.95	8.95	7.95	6.95
100917	Sunon	SF23080A/2083HSL	220 VAC	3.15 x 3.15 x 1.50	30	Sleeve	60	13.5	UL/CSA/TUV/CE	35	12" leads	12.95	11.95	10.95	9.95
131983	Toyo Fan	UT926A8	220 VAC	3.63 x 3.63 x 1.00	30	Ball	44	5.0	UL	35	terminals	9.95	8.95	7.95	6.95
175003	NMB	4715MS-23W-B10	220 VAC	4.68 x 4.68 x 1.50	50	Ball	45	6.0	UL/TUV/CE	28	12" leads	9.95	8.95	7.95	—
102891	Sunon	DP200A-2123XBT	220 VAC	4.68 x 4.68 x 1.50	117	Ball	120	21.0	UL/CSA/TUV/CE	50	terminals	14.95	13.95	12.95	11.95

For Fan Guards and Cords – see page 88

DC Brushless Fans



163475



102921

Call for additional OEM PRICING – we carry major manufacturers.

- Low profile
- Ball and sleeve bearings
- Power input by lead wires
- Agency approved fans
- Low power consumption
- Low acoustical noise rating
- PBT black thermo plastic frame and impeller



102939



161699

Part Number	Manufacturer	Product Number	Voltage	Dimensions (W" x H" x D")	Air Flow (CFM)	Bearing Ball/Sleeve	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing 1	10	50	100
163475	Nidec	C34427-55APP	5 VDC	1.00 x 1.00 x 0.40	0.5	Ball	90	0.45	—	22	2"	$4.95	$4.49	$3.95	$3.25
131246	Adda	AD0205LX-G50	5 VDC	1.00 x 1.00 x 0.40	1.8	Sleeve	100	0.6	UL/CSA/CE	18.7	5.5"	10.95	9.95	8.95	7.95
142851	Shicoh	0410N-5E	5 VDC	1.60 x 1.60 x 0.40	4.2	Ball	190	0.9	—	23	2.5"	6.95	6.25	5.59	4.95
102921	Sunon	KD0504PFS2	5 VDC	1.60 x 1.60 x 0.40	6.3	Sleeve	250	0.6	UL/CSA/TUV	24.3	12"	7.95	6.95	6.25	5.59
166887	Copal	F412R-05LB-09	5 VDC	1.60 x 1.60 x 0.50	3.9	Ball	100	0.5	—	16	7"	5.95	5.35	4.79	3.95
171678	Delta	AFB0405HHD	5 VDC	1.60 x 1.60 x 0.80	8.6	Ball	700	2.0	—	36	2.5"	3.95	3.49	2.95	2.49
102912	Sunon	KD1202PFB2-8	12 VDC	1.00 x 1.00 x 0.40	2.0	Ball	60	0.7	UL/CSA/TUV	30	6"	12.95	11.95	10.95	9.95
162907	Elina	KDA123510MB	12 VDC	1.40 x 1.40 x 0.40	4.5	Ball	120	1.5	UL/CSA	21	3"	5.95	5.35	4.79	4.25
191476	Common Wealth	FP-108HX/DC	12 VDC	1.60 x 1.60 x 0.40	5.4	Sleeve	80	0.96	—	29	12"	4.95	4.49	3.95	3.55
102939	Jamicon	JF0410S1H	12 VDC	1.60 x 1.60 x 0.40	6.3	Sleeve	110	1.3	UL/CSA/TUV/CE	34.7	10.5"	5.95	5.35	4.79	3.95
189691	Sunon	KD1204PFS2	12 VDC	1.60 x 1.60 x 0.40	6.3	Sleeve	70	0.9	UL/CSA/TUV	24	12"	6.95	6.25	5.59	4.95
161699	Sunon	KD1204PFB2-8	12 VDC	1.60 x 1.60 x 0.40	6.2	Ball	70	0.6	UL/CSA/TUV	30	12"	7.95	6.95	6.25	5.59
174131	Jamicon	JF0413S1M	12 VDC	1.60 x 1.60 x 0.50	3.8	Sleeve	90	1.1	UL/CSA/TUV	29	14"	3.95	3.49	2.95	2.49
174123	Jamicon	JF0413B1M	12 VDC	1.60 x 1.60 x 0.50	3.8	Ball	90	1.1	UL/CUL/TUV	28	14"	4.25	3.75	3.49	2.95
18770	Sanyo Denki	109P0412B704	12 VDC	1.60 x 1.60 x 0.60	6	Sleeve	60	0.7	—	22	4"	4.95	4.49	3.95	3.25
154851	NMB	1606KL-04W-B50	12 VDC	1.60 x 1.60 x 0.60	8	Ball	110	1.0	UL/CSA/VDE	34	5"	6.95	6.25	5.59	4.95
136178	Adda	AD0412MS-C70	12 VDC	1.60 x 1.60 x 0.80	5	Sleeve	110	1.32	UL/CSA	23	9"	3.95	3.49	2.95	2.49
75344	Delta	DFB0412M	12 VDC	1.60 x 1.60 x 0.80	7.3	Ball	80	0.8	UL/CSA/TUV	28	10"	5.95	4.95	4.49	3.95
139601	Adda	AD0512HS-D71	12 VDC	2.00 x 2.00 x 0.60	12	Sleeve	100	1.2	UL/CSA/CE	29	12"	6.95	6.25	5.59	4.95
147491	Shicoh	0610-12HH	12 VDC	2.36 x 2.36 x 0.40	16.2	Ball	150	1.8	—	38	5"	5.95	5.35	4.79	3.95
104205	Panaflo	FBA06T12L	12 VDC	2.36 x 2.36 x 0.60	12	Sleeve	130	1.1	—	24	6"	6.95	5.95	5.49	4.95
151327	NMB	2406KL-04W-B40-L00	12 VDC	2.36 x 2.36 x 0.60	16	Ball	130	1.6	UL/CSA/VDE/CE	31	9"	6.95	5.95	5.59	4.95

DC Brushless Fans continued on pages 87 & 88

Call for additional OEM PRICING – we carry major manufacturers.



134586

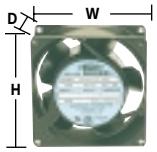


102955

- Low acoustical noise rating
- Agency approved fans

1 **134586:** Blower type fan
2 **175505/185826/189608/189616:** Speed sensor
3 **172460/174967:** Locked rotor alarm
4 **172478:** Rotor locking input
5 **174941:** Locked rotor protected
6 **16993:** Replacement for the PC/XT computer power supply fan
7 **191628:** Blower

† Temp Control: 151335/163601/163619 (35°C); 166959 (40°C); 162739 (50°C, 3 leads)
* Manufacturers and specifications may vary



102875



191628

Part Number	Manufacturer	Product Number	Voltage	Dimensions (W" x H" x D")	Air Flow (CFM)	Bearing Ball/Sleeve	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBa)	Connection (Leads)	Pricing 1	10	50	100
175046	Globe Motors	D24-B08A-04W3-000	12 VDC	2.36 x 2.36 x 0.80	10.6	Ball	90	0.8	UL/CSA/TUV/CE	22	13"	$5.95	$4.95	$4.49	$3.95
144160	Adda	AD0612LB-C70GL	12 VDC	2.36 x 2.36 x 0.80	12.6	Ball	80	1.0	UL/CSA/TUV	22.7	6"	5.95	5.25	4.75	3.25
189595	Sunon	KD1206PKS2	12 VDC	2.36 x 2.36 x 0.80	16.5	Sleeve	150	1.8	UL/CSA/TUV/CE	31	12"	5.95	5.35	4.79	4.29
185818	Cheng	CHA6012DB	12 VDC	2.36 x 2.36 x 0.90	20.5	Ball	180	2.5	UL	33	12"	4.95	4.49	3.95	3.49
105291	Nidec	TA225DC-A32313-16	12 VDC	2.36 x 2.36 x 1.00	11	Ball	70	0.8	—	34	9"	3.95	3.55	3.19	2.85
75352	CommonWealth	FP108FDC12VS2	12 VDC	2.36 x 2.36 x 1.00	15.5	Sleeve	110	1.3	UL/CSA/TUV/CE	25	12"	4.95	4.49	3.95	3.25
150421	Jamicon	JF0625B1M	12 VDC	2.36 x 2.36 x 1.00	17.6	Ball	200	2.4	UL/CSA/TUV	28.5	10"	5.95	5.35	4.79	4.25
136143	Delta	SB0612M	12 VDC	2.36 x 2.36 x 1.00	17.7	Sleeve	200	2.4	UL/CSA/VDE	26.5	5"	4.95	4.49	3.75	3.25
147029	Nidec	TA225DC-M33455-16	12 VDC	2.36 x 2.36 x 1.00	20	Ball	220	2.6	UL/CSA	47	11"	5.95	5.35	4.79	3.95
102947	Jamicon	JF0625S1H	12 VDC	2.36 x 2.36 x 1.00	20.5	Sleeve	230	2.7	UL/CSA/TUV	30.5	11"	5.49	4.95	4.49	3.95
191548	CommonWealth	FP108FDC12VS1B	12 VDC	2.36 x 2.36 x 1.00	21	Ball	130	1.6	UL/CSA/TUV/CE	30	12"	6.95	6.25	5.59	4.95
134586	Delta[1]	BFB0712H	12 VDC	2.98 x 2.98 x 1.18	11.3	Ball	360	2.6	UL/CSA/TUV/VDE	38	4"	8.95	7.95	6.95	5.95
109081	Adda	AD0812HS-D71	12 VDC	3.15 X 3.15 X 0.60	29	Sleeve	190	2.3	UL/CSA/TUV/CE	31.4	12"	8.95	7.95	6.95	6.25
154675	Panaflo	FBA08T12H	12 VDC	3.15 x 3.15 x 0.60	33.5	Sleeve	260	2.4	UL/CSA	34	11"	8.95	7.95	6.95	6.25
141920	Adda	AD0812HB-C70	12 VDC	3.15 x 3.15 x 0.80	27.3	Ball	240	2.9	UL/CSA/CE	34	12"	9.95	8.95	7.95	6.95
16993	Various[6] *	FAN7315SL	12 VDC	3.15 x 3.15 x 1.00	25-40*	Sleeve	120-200*	1-2*	UL/CSA*	25*	4-12"*	5.95	5.35	4.79	3.95
75361	Various*	FAN6315BL	12 VDC	3.15 x 3.15 x 1.00	25-40*	Ball	120-200*	1-2*	UL/CSA*	25*	4-12"*	5.95	4.95	4.49	3.95
131748	NMB	3110KL-04W-B20	12 VDC	3.15 x 3.15 x 1.00	28	Ball	140	1.3	UL/CSA	25	9"	6.95	6.25	5.59	4.95
154288	Sunon	KDE1208PTS3-6	12 VDC	3.15 x 3.15 x 1.00	29.4	Sleeve	120	1.4	UL/CSA/TUV/CE	24.5	5.5"	4.95	4.49	3.95	3.25
123529	Adda	AD0812MS-A70GL	12 VDC	3.15 x 3.15 x 1.00	32	Sleeve	150	1.8	UL/CSA/TUV	28.3	12"	6.95	5.95	5.49	4.95
166959	NMB (Smart Fan)†	3110NL-012Q340-00	12 VDC	3.15 x 3.15 x 1.00	35	Ball	290	3.5	UL/CSA	35	2"	5.95	5.35	4.79	4.25
151335	Delta (Smart Fan)†	DFC0812B	12 VDC	3.15 x 3.15 x 1.00	37.4	Ball	200	2.4	UL/CSA, TUV	32	17"	9.95	8.95	7.95	6.95
189608	Protechnic[2]	MGT8012HS	12 VDC	3.15 x 3.15 x 1.00	38.3	Sleeve	240	2.9	UL/CSA/TUV/CE	31	13"/3 lead	6.95	6.25	5.59	4.95
191599	NMB	3110KL-04W-B50	12 VDC	3.15 x 3.15 x 1.00	39	Ball	230	2.7	CSA	34	10"	7.95	6.95	6.25	5.59
185834	Panaflo	FBM08A12H	12 VDC	3.15 x 3.15 x 1.00	39.6	Sleeve	220	2.1	—	32	11"	6.95	5.95	5.49	4.95
185826	NMB[2]	3110KL-04W-B69	12 VDC	3.15 x 3.15 x 1.00	42	Ball	340	3.1	UL/CSA/VDE/CE	35	13"/3 lead	7.95	6.95	6.25	5.59
102955	Sunon	KD1208PTB1-6	12 VDC	3.15 x 3.15 x 1.00	42.5	Ball	220	2.6	UL/CSA/TUV/CE	33.5	12"	7.95	6.95	6.25	5.59
172460	Nidec[3]	TA300DCM33406-68	12 VDC	3.15 x 3.15 x 1.00	43	Ball	290	3.5	UL/CSA	41	11"/3 lead	7.95	6.95	5.93	5.35
189755	Cheng	CHA8012DB	12 VDC	3.15 x 3.15 x 1.00	44.3	Ball	300	3.6	UL	37	2" w/conn	4.95	4.49	3.95	3.25
108425	Cheng	CHA9212AB	12 VDC	3.63 x 3.63 x 1.00	31	Ball	120	1.7	—	24	12"	5.95	5.35	4.79	4.25
191601	NMB	3610KL-04-B20	12 VDC	3.63 x 3.63 x 1.00	34	Ball	120	1.3	UL/CSA/TUV	27	12"	5.95	5.35	4.79	4.29
154641	Nidec	D09T12PH	12 VDC	3.63 x 3.63 x 1.00	42	Ball	170	2.5	—	48	11"	6.95	6.25	5.59	4.95
75441	Common Wealth	FP108BDC12VS1	12 VDC	3.63 x 3.63 x 1.00	45	Sleeve	320	3.1	UL/CSA/TUV/CE	32	10"	5.95	5.35	4.79	3.95
189780	Delta	DFB0912H	12 VDC	3.63 x 3.63 x 1.00	49.5	Ball	300	3.1	UL/CSA/TUV	35	5"	7.95	6.95	6.25	5.59
172478	Delta[4]	DFB0912H-R00	12 VDC	3.63 x 3.63 x 1.00	49.5	Ball	300	3.1	UL/CSA,/VDE/CE	35	8"/3 lead	6.95	5.95	5.35	4.79
190983	Sunon	KD1209PTB1-6A	12 VDC	3.63 x 3.63 x 1.00	51	Ball	220	2.6	UL/CSA/TUV	34	12"	8.95	7.95	6.95	6.25
116476	Jamicon	JF0925S1H	12 VDC	3.63 x 3.63 x 1.00	52	Sleeve	350	4.2	UL/CSA/TUV	37	10"	7.95	6.95	6.25	5.59
189616	Protechnic[2]	MGT9212XS	12 VDC	3.63 x 3.63 x 1.00	55	Sleeve	320	3.8	UL/CSA/TUV	31.5	13"/3 lead	7.95	6.95	6.25	5.59
162739	NMB (Smart Fan)†	3610KL-04W-B56	12 VDC	3.63 x 3.63 x 1.00	55	Ball	430	3.8	UL/CSA/VDE/CE	37	10"/3 lead	7.95	6.95	6.25	5.59
102963	Nidec	TA350DC-M33503-55	12 VDC	3.63 x 3.63 x 1.00	56	Ball	400	4.8	UL/CSA	45	8"	8.95	7.95	6.95	6.25
174140	Common Wealth	FP108MS3	12 VDC	4.68 x 4.68 x 1.00	54	Sleeve	140	1.7	UL/CSA/TUV/CE	25	12"	5.95	4.95	4.49	3.95
174959	NMB	4710NL-04T-B20	12 VDC	4.68 x 4.68 x 1.00	60	Ball	200	1.8	UL/CSA/VDE/CE	29	terminals	6.95	6.25	5.59	4.95
75467	NMB	4710NL-04W-B30	12 VDC	4.68 x 4.68 x 1.00	70	Ball	320	2.9	UL/CSA/VDE/CE	34	12"	7.95	6.95	6.25	5.59
174916	NMB	4710NL-04T-B30	12 VDC	4.68 x 4.68 x 1.00	70	Ball	320	2.9	UL/CSA/VDE/CE	34	terminals	6.95	6.25	5.59	4.75
174086	Jamicon	JF1225S1M	12 VDC	4.68 x 4.68 x 1.00	74	Sleeve	250	3.0	UL/CSA/CE	37	11"	6.95	5.95	5.35	4.49
102875	Delta	WFB1212H	12 VDC	4.68 x 4.68 x 1.00	86.5	Ball	360	4.3	UL/CSA/TUV	37.6	12"	9.95	8.95	7.95	6.95
174924	Globe Motors	D47-B10A-04T3-000	12 VDC	4.68 x 4.68 x 1.00	90	Ball	740	6.8	UL/CSA	39	terminals	7.95	6.95	6.25	5.59
163619	NMB (Smart Fan)†	4710NL012P535P0	12 VDC	4.68 x 4.68 x 1.00	90	Ball	740	8.9	—	38.5	12"	3.95	3.55	3.19	2.75
174941	Globe Motors[5]	D47-B15A-04T2-100	12 VDC	4.68 x 4.68 x 1.50	75	Ball	520	5.3	UL/CSA/TUV	38	terminals	5.95	5.35	4.79	4.29
174967	NMB[3]	4715KL-04W-B29	12 VDC	4.68 x 4.68 x 1.50	97	Ball	520	4.8	UL/CSA/TUV/CE	40	12"/3 lead	7.95	6.95	5.95	4.95
159020	Sunon	KDE1212PMS1-6A	12 VDC	4.68 x 4.68 x 1.50	107	Sleeve	570	6.8	UL/CSA/TUV	41	12"	11.95	10.95	9.95	8.95
163601	Delta (Smart Fan)†	WFC1212BE	12 VDC	4.68 x 4.68 x 1.50	108	Ball	650	6.6	UL/CSA/VDE	41.3	12"	12.95	11.95	10.95	9.95
94625	Sunon	KD1212PMB1-6A	12 VDC	4.68 x 4.68 x 1.50	108	Ball	570	6.8	UL/CSA/TUV/CE	24	12"	11.95	10.95	9.95	8.49
189851	Delta	WFB1212HE	12 VDC	4.68 x 4.68 x 1.50	108	Ball	490	5.9	UL/CSA/VDE/CE	41.3	12"	12.95	11.95	10.95	9.95
175020	NMB	6820PL-04W-B30	12 VDC	6.75 x 6.75 x 2.00	210	Ball	1900	21.8	UL/CSA/TUV	49	13"	14.95	13.49	11.95	10.95
100909	Sunon	KD2404PKS2	24 VDC	1.60 x 1.60 x 0.80	6.5	Sleeve	50	1.2	UL/CSA/TUV/CE	25.5	12"	7.95	6.95	6.25	5.59
140661	NMB	2408NL-05W-B60	24 VDC	2.36 x 2.36 x 0.80	18.4	Ball	100	2.4	—	31	2"	3.95	3.55	3.19	2.75

DC Brushless Fans continued on page 88

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

[2] **175505:** speed sensor
[7] **191628:** blower

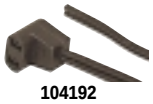
Call for OEM PRICING – we carry major manufacturers.
See additional DC Brushless Fans on pages 86 & 87

Part Number	Manufacturer	Product Number	Voltage	Dimensions (W" x H" x D")	Air Flow (CFM)	Bearing Ball/Sleeve	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBa)	Connection (Leads)	Pricing 1	10	50	100
174107	Jamicon	JF0625S2M	24 VDC	2.36 x 2.36 x 1.00	18	Sleeve	130	3.1	UL/TUV	28.5	10"	$3.95	$3.55	$3.19	$2.75
189860	Jamicon	JF0625B2M	24 VDC	2.36 x 2.36 x 1.00	18	Ball	130	3.1	UL/CSA/TUV/CE	28.5	10"	5.95	4.95	4.49	3.95
146093	NMB	2410ML-05W-B40	24 VDC	2.36 x 2.36 x 1.00	22	Ball	120	2.2	UL/CSA/VDE/CE	33.5	2.5"	6.95	6.25	5.59	4.95
174078	Jamicon	JF0825S2L	24 VDC	3.15 x 3.15 x 1.00	26	Sleeve	200	2.4	UL/CUL/TUV	28	10"	3.95	3.55	3.19	2.75
112408	Jamicon	JF0825B2M	24 VDC	3.15 x 3.15 x 1.00	32	Ball	130	3.1	UL/CSA/TUV	28	10"	6.95	6.25	5.59	4.95
191572	Nidec	TA300DC-M33411-16	24 VDC	3.15 x 3.15 x 1.00	35	Ball	130	3.1	UL/CSA	45	11"	7.95	6.95	6.25	5.59
162923	Jamicon	JF0825S2H	24 VDC	3.15 x 3.15 x 1.00	39.2	Sleeve	150	3.6	UL/CSA/TUV	31	10"	4.95	4.49	3.95	3.25
136160	Jamicon	JF0825B2H	24 VDC	3.15 x 3.15 x 1.00	39.2	Ball	150	3.6	UL/CSA/TUV	31	12"	8.95	7.95	6.95	6.25
189878	Sunon	KD2408PTB1-6A	24 VDC	3.15 x 3.15 x 1.00	42.5	Ball	220	2.6	UL/CSA/TUV/CE	36.5	12"	9.95	8.95	7.95	6.95
191628	Rotron Comair[7]	WT24B6X	24 VDC	3.15 x 3.15 x 1.25	1.5	Ball	190	4.6	—	51.4	21"	19.95	17.95	15.95	13.95
136792	Innovative	BP922524M	24 VDC	3.63 x 3.63 x 1.00	31	Ball	140	3.3	UL/CSA/TUV	31	12"	5.95	5.35	4.79	4.29
189886	NMB	3610KL-05W-B30	24 VDC	3.63 x 3.63 x 1.00	40.6	Ball	87	2.1	UL/CSA/VDE	34	12"	6.95	6.25	5.59	4.95
174094	Jamicon	JF0925S2H	24 VDC	3.63 x 3.63 x 1.00	52	Sleeve	190	4.6	UL/CSA	37	10"	6.95	6.25	4.49	3.49
117049	NMB	4710PL-05W-B20-100	24 VDC	4.68 x 4.68 x 1.00	53	Ball	90	2.1	—	29	12"	11.95	10.95	9.95	8.95
175281	Globe Motors	D47B10A05W2000	24 VDC	4.68 x 4.68 x 1.00	70	Ball	160	2.9	UL/CSA/TUV/CE	34	12"	11.95	9.95	8.95	7.95
100968	NMB (Boxer)	4715KL-05W-B10	24 VDC	4.68 x 4.68 x 1.50	83	Ball	200	3.6	—	35	12"	10.95	9.95	6.95	5.95
153411	Sunon	KD2412PMB2-6A	24 VDC	4.68 x 4.68 x 1.50	98	Ball	230	5.5	UL/CSA/TUV	36.5	12"	14.95	13.95	12.95	11.95
175476	NMB	6820PL-05W-B10	24 VDC	6.75 x 6.75 x 2.00	170	Ball	500	9.1	UL/CSA/TUV/CE	42	12.5"	14.95	13.49	11.95	10.95
166730	Mechatronics	A9225H48B	48 VDC	3.63 x 3.63 x 1.00	51	Ball	100	4.8	UL/CSA/TUV	36	13"	3.79	3.45	3.09	2.79
175468	NMB	5920PL-07W-B30	48 VDC	6.75 x 5.90 x 2.00	210	Ball	400	14.4	UL/CSA	51	12.5"	7.59	6.85	6.15	5.55
175505	NMB[2]	5920PL-07W-B49	48 VDC	6.75 x 5.90 x 2.00	240	Ball	450	17.8	UL/CSA/TUV	54	7"/5 lead	14.95	12.95	11.95	9.95

Fan Accessories and Heat Sink Fans

Straight and Right Angle 24" Fan Plug Cords


28564


104192

- Cord type: SPT-1 (2) conductor black
- Voltage rating: 300V
- Temperature range: 60°C
- Fits all terminal fans
- 24" long

Part No.	Description	1	10	100	250
28564	Straight cord	$1.09	$.89	$.75	$.65
104192	90° angle cord	1.15	.95	.79	.69

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Join our "Live Wire" today to receive e-mail alerts on New products and Special Promotions

Fan Guards and Filters

Compatible with AC/DC Fans
(see above and pages 86 & 88)

- All guards and filters fit all fans by matching the H" dimension. Example: P/N 75408 fan height is 3.15", 31923 metal guards are 3.15". They fit one another.


123502


163432


120037


185615


31923/123511


25734


138561/163459


25726


138579/192874/130104

Part No.	Description	1	10	100	250
123502	1.60" metal (chrome) guard	$.89	$.75	$.65	$.55
163432	2.00" metal (chrome) guard	.75	.63	.55	.45
120037	2.36" metal (chrome) guard	.89	.75	.65	.55
185615	2.36" dual fan guard	1.09	.89	.75	.65
31923	3.15" metal (chrome) guard	1.09	.89	.75	.65
123511	3.63" metal (chrome) guard	1.15	.95	.79	.69
25734	4.68" metal (chrome) guard	1.19	.99	.85	.75
138561	3.15" plastic filter w/ mesh	1.75	1.49	1.25	1.09
163459	3.63" plastic filter w/ mesh	1.75	1.49	1.25	1.09
25726	4.68" plastic filter w/ mesh	1.95	1.69	1.39	1.19
138579	3.15" alum. washable filter	2.95	2.65	2.39	2.15
192874	3.63" alum. washable filter	3.25	2.95	2.65	2.39
130104	4.68" alum. washable filter	3.25	2.95	2.65	2.39

Heat Sinks and Heat Sinks w/ Fan for 486, 586 & 686 Processors

Keep your 486, 586 & 686 chips cool!


129234


180961


191636


174115

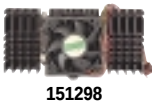

67660


118092


181278

- Excellent for avoiding CPU overheating during extended system on-time
- High efficiency cooling fans
- Easy installation – just snap it in
- * 174115: 14" lead wires


174027


151298


185607


190545

Part No.	Description	Size (L" x W" x D")	Agency Approvals	1	10	50	100
129226	Heat sink for 486 CPU – adhesive back	1.70 x 1.63 x 0.36	—	$2.49	$2.25	$1.95	$1.75
129234	Heat sink for 486 CPU – adhesive back	1.70 x 1.64 x 0.66	—	2.95	2.65	2.39	2.15
180961	Heat sink for Pentium® Pro	3.16 x 2.48 x 1.03	—	12.95	11.95	9.95	—
191636	Heat sink w/ fan for 486 CPU w/ clip	1.85 x 1.92 x 0.72	UL/CE/TUV	4.95	4.49	3.75	3.75
174115*	Heat sink w/ fan for 486 CPU w/ snap	1.92 x 1.95 x 0.93	UL/CUL	3.95	3.55	2.95	2.65
67660	Heat sink w/ fan for 486 CPU w/ snap	1.92 x 1.95 x 0.93	UL/CSA/CE	4.95	4.49	3.75	3.25
118092	Heat sink w/ fan for 586 CPU w/ snap	2.18 x 2.30 x 1.00	UL/CSA/CE/TUV	4.95	4.49	3.75	3.25
153234	Heat sink w/ fan for socket 7 (AT)	1.97 x 2.11 x 1.03	UL/CE/TUV	4.95	4.49	3.95	3.55
132097	Heat sink w/ fan for socket 7 (AT)	2.05 x 2.14 x 1.10	UL/CSA/CE/TUV	9.95	8.95	7.95	6.95
181278	Heat sink w/ fan socket 7 (ATX)	2.06 x 2.08 x 1.64	UL/CE	9.95	8.95	7.95	6.95
174027	Heat sink w/ fan for slot 1	4.90 x 2.21 x 1.25	CE	6.95	6.25	4.95	4.49
151298	Heat sink w/ fan for slot 1	4.90 x 2.15 x 1.34	UL/CE/TUV	9.95	8.95	7.95	6.95
185607	Heat sink w/ fan for Pentium® Pro	2.75 x 2.84 x 1.53	UL/CSA	14.95	13.49	11.95	10.75
190545	Heat sink w/ fan for socket 370	2.32 x 2.34 x 1.00	—	19.95	17.95	15.95	13.95

For Additional Heat Sinks see page 17 ❖ *For Pentium Processors see page 13*

Same business day shipping until 6:00 p.m. EST.
See page 182 for Zone Chart



3.5" Hard Drive Bracket with 3 Cooling Fans

This cooler bracket fits a 5.25" bay in front of your computer case. It also fits 3.5" hard drives and other internal 3.5" devices.





- Three 12VDC @ 90mA fans for cooling
- CFM rating: 5.6/fan
- Easy access air filter
- Vented beige face plate replaces 5.25" bezel of 5.25" bay
- Y adapter for hard drive and fan
- Weight: 0.8 lbs.
- See pg 135 for hard drives

Includes: Mounting hardware

Part No.	Description	1	10	25
170595	Hard drive cooler	$18.95	$16.95	$14.95

Dual Fan Cooler w/ Back Light



148742





148769

- Fits 5.25" bay
- 5.3 CFM (per fan)
- Requires 12VDC for fans (5.25" drive connectors)
- Audible overheat alarm
- Backlight color: green
- Controls two sensors
- One-year warranty
- Weight: 0.5 lbs.
- Digital display: 1.86"W x 1.0"H
- Size: 6.0"W x 2.4"D x 1.7"H
- **P/N 148769:** sensor for CPU monitoring

Includes: CR2032 3V battery

Part No.	Description	1	10	25
148742	Dual fan cooler	$39.95	$35.95	$32.49
148769	Sensor (flat type) CPU	4.95	4.49	3.95

Internal PC Cooling Fan

Direct Air Flow to Internal Hot Spots

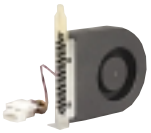


- 27 CFM
- Noise: 27dBa
- Fan life: 25,000 hrs
- Rated voltage: 12VDC @ 200mA
- Input power: 1.44W max.
- Operating voltage: 12VDC
- Connector: 4-pin male/female (pass thru) molex type
- Size: 3.4"W x 1.3"D x 3.6"H

Part No.	Description	1	10	25
138966	Cooling fan	$12.45	$10.16	$7.96

Jameco offers unsurpassed Technical Support for all your difficult questions or log onto www.jameco.com for our Complete Library of Technical Documents

Back Panel PC Cooling Fan



- Type: sleeve axial fan
- Back panel mountable
- Operating volt.: 12VDC @ 200mA
- Airflow: 42 CFM
- Noise ratio: 26 dBa
- Power: 1.8W
- 10.5" wire with 4-pin Molex power connector
- One-year warranty
- Size: 4.3"L x 3.5"H x 1.1"Thick

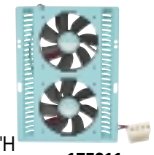
Part No.	Description	1	10	50
152240	PC cooler fan	$19.95	$17.95	$15.95

3.5" and 5.25" Hard Drive Cooling Assemblies

Dual Fans for Even Cooling



175302



175311

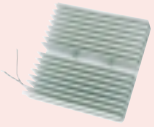
Keep your hard drive cool by using less space. These hard drive cooling fans have 2 high airflow fans that provide 70% heat dissipation.

- RPM per fan: 3800
- Combined airflow: 28 CFM
- Dual 12V sleeve bearing fan
- Power consumption: 1.44W each
- Easy installation
- UL, CSA, CE approved
- Size: (175302) 5.7"L x 5.5"W x1.2"H
- Size: (175311) 5.5"L x 4.0"W x 0.5"H

Includes: Mounting hardware

Part No.	Description	1	10	25
175302	HD cooler (5.25")	$16.29	$14.65	$13.18
175311	HD cooler (3.5")	15.59	13.99	12.59

Thermoelectric Coolers with Heat Sink



131975



147942

- **Removed from original equipment**
- Cools down to 45˚F
- Max. heat sink operating temp.: 100˚C
- Heat or cool by changing direction of current
- Operating voltage: 13-15VDC @ 4A (nominal)
- Recommend 12VDC @ 740mA fan P/N 102875, pg 87
- Rated lifetime over 200,000 hrs.
- For stationary use, recommend 13.8VDC @ 10A power supply P/N 138667, pg 80
- Can operate from 12V car battery
- 18 (AWG) wire leads, 3.0" length

131975: One heat sink

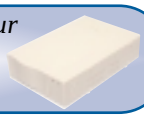
- Size: heat sink: 5.0"L x 5.0"W x 1.3"H
  pump: 2.7"L x 1.8"W x 1.2"H

147942: Two heat sinks, top & bottom

- Size: heat sink: 5.0"L x 4.0"W x 1.4"H
  pump: 6.0"L x 4.8"W x 0.7"H

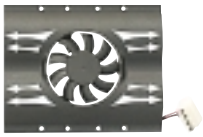
Part No.	Description	Wt. (lbs.)	1	10
131975	Thermo. cooler, 1 HS	1.9	$27.95	$24.95
147942	Thermo. cooler, 2 HS	2.4	29.95	26.95

See pages 133-135 for our selection of Computer Cases and Drives



3.5" Hard Drive Cooling Fan

Ball Bearing Fan for Reliability



- Extends hard disk life and reliability
- Fits most 3.5" hard drives
- Ball bearing
- Air flow: 20 CFM
- Power output: 1.92 watts
- Reduces hard disk temperature
- Operating voltage: 12VDC @ 160mA
- Size: 5.0"L x 4.0"W x 0.5"Thick

Includes: Mounting hardware

Part No.	Description	1	10	25
175521	HD cooling fan	$8.95	$7.95	$6.95

3.5" Hard Drive Cooling Fan

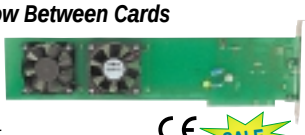


- Airflow: 32 CFM, exhausts hot air from case through front panel vent
- Noise ratio: 26 dBa
- 3.5" drive bay mountable (includes mounting screws)
- Type: sleeve axial fan
- Power: 1.8 watts
- Operating voltage: 12VDC @ 200mA
- 9.5" wires with 4-pin Molex type power connector
- Size: 4.9"L x 4.0"W x 1.0"H

Part No.	Description	1	10	25
152258	HD-300 cooling fan	$8.95	$8.05	$7.25

Fancard II PC Card

Increase Air Flow Between Cards



- CFM: 25
- MTBF: 30,000 hours
- Can be installed into any ISA slot
- Circulates air within case to keep all components from overheating
- One-year warranty
- CE approved

Part No.	Description	1	10
79020	Fancard II	$13.95	$11.72

Exhaust Fan PC Card

Exhaust/Intake Air



- Insert into card slot (non-electrical connection)
- The air duct can be extended and fan assembly reversed
- 12VDC 20 CFM airflow eliminates hot air out of case while increasing flow through case
- Fan: CE/TUV/UL/CSA approved
- One-year warranty

Part No.	Description	1	10	25
124492	PC exhaust fan	$9.95	$8.95	$8.10

Thermoelectric Cooler Chips



172048

- Solid state heat pumps
- Operating voltage: 15.4VDC nominal
- T max. = 60˚C
- 20 AWG wire leads, 4" long
- Heat or cool by changing direction of current
- Cools down to -30˚C (dependent on external temperature)
- Couples: # of P&N type semiconductor pairs connected electrically in series

Part Number	Product Number	Couples	Watts	Voltage (max.) DC	Current (max.) A	Size (L" x W" x T")	Pricing 1	Pricing 10
172030	TEC30	71	19.7	8.4	4	1.2 x 1.2 x 0.2	$19.95	$17.95
172048	TEC40	127	35.6	15.4	4	1.6 x 1.6 x 0.2	25.95	22.95
172056	TEC50	127	79.1	15.4	8	2.0 x 2.0 x 0.2	41.95	37.95

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

Call for large OEM pricing – we carry major manufacturers.

28 AWG Gray Flat Ribbon Cable



103481

- Ideal for use with insulation displacement DIP jumpers, card-edge connectors and socket connectors. See pages 52, 53, 56 & 57
- Single edge red stripe for pin 1 orientation
- Center spacing: 0.05"
- Insulation: polyvinyl chloride (PVC) • Voltage rating: 300V • 28 AWG (7 x 36)
- Temperature rating: -20°C to +80°C • Stranded copper wire

• **Prepackaged and priced in increments of 10', 25', 100' or 500'**

Part No.	Product No.	Conductors	10 ft.	25 ft.	100 ft.	500 ft.
135538	171-10	10	$1.49	$3.20	$10.00	$40.00
37671	171-16	16	1.75	4.00	12.50	57.00
37719	171-20	20	1.95	4.50	16.00	65.00
37760	171-25	25	3.25	7.00	20.00	90.00
37807	171-26	26	3.49	8.00	20.50	95.00
37840	171-34	34	4.25	9.25	27.00	95.00
37911	171-37	37	4.95	11.75	25.00	115.00
37920	171-40	40	4.95	11.75	32.00	145.00
37954	171-50	50	6.75	14.50	40.00	170.00
103481	171-60	60	8.95	17.75	42.00	200.00

28 AWG Multicolor Flat Ribbon Cable



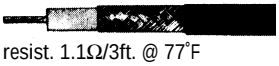
105718

- Ideal for use with insulation displacement DIP jumpers, card-edge connectors, socket connectors and IDC connectors
- Standard 10-color repeat sequence • Center spacing: 0.05"
- Temperature rating: -20°C to +80°C • Voltage rating: 300V
- Insulation: Polyvinyl chloride (PVC) • Stranded copper wire • 28 AWG (7 x 36)

• **Prepackaged and priced in increments of 10', 25', 100' or 500'**

Part No.	Product No.	Conductors	10 ft.	25 ft.	100 ft.	500 ft.
112547	28RC10	10	$1.95	$4.50	$17.50	$70.00
105671	28RC16	16	3.25	7.25	24.00	100.00
105689	28RC20	20	3.95	9.00	30.00	125.00
105697	28RC25	25	4.95	11.50	36.00	160.00
105700	28RC34	34	6.50	14.50	42.00	185.00
105726	28RC40	40	7.95	18.50	64.00	285.00
105718	28RC50	50	9.95	23.00	73.00	325.00

RG Type Coaxial Cable



RG6 (75Ω): • Nominal. capac. 16.2pF/ft. • Center resist. 1.1Ω/3ft. @ 77˚F
RG58/U & RG58A/U (50Ω):
• Nominal capacitance. 27pF/ft. • Center resistance. 10.4Ω/1kft. @ 77˚F
RG59/U (75Ω): • Nominal capac. 19pF/ft. • Center resist. 16.5Ω/kft. @ 77˚F
RG174/U (50Ω): • Nominal capac. 30.8pF/ft. • Center resist. 97Ω/kft. @ 77˚F

• **Prepackaged and priced in increments of 100'or 1000'**

Part No.	Product No.	Description	100 ft.	1000 ft.
177210	RG6	For CATV, satellite	$20.00	$160.00
102226	RG58/U	For ethernet, oscilloscopes (solid 20AWG)	8.00	65.00
116898	RG58A/U	For ethernet, oscilloscopes (stranded 20AWG)	14.00	100.00
102218	RG59/U	For CATV and video patch cords (solid 22AWG)	11.00	80.00
112037	RG174/U	For ethernet, oscilloscopes (stranded 26AWG)	13.00	95.00

Thin Ethernet Coaxial Cable

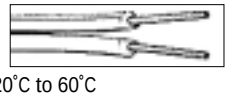


- Braided overall shield • Thin ethernet coaxial cable • RG58 • 50Ω impedance
- Stranded copper with center conductor • Meets IEEE 10Base2 specifications

• **Prepackaged and priced in increments of 25', 100' or 250'**

Part No.	Product No.	Description	25 ft.	100 ft.	250 ft.
172507	A7H9907-250	Thin ethernet coaxial cable	$3.00	$10.00	$20.00

24 AWG 300V 2-Conductor Stranded Power/Speaker Cable

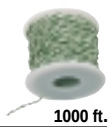


- Operating voltage: 300V • Temperature rating: 20˚C to 60˚C
- Stranded copper wire (7 x 32) • Black wire with white polarity stripe

Part No.	Prod. No.	Color	Wt. (lbs.)	100 ft.	Part No.	Prod. No.	Color	Wt. (lbs.)	1000 ft.
100280	224BK/C	Black	0.8	$4.95	100298	224BK/K	Black	7.8	$39.95

24 AWG Twisted Pair Cable





- 300 Volts • 80C° • PVC insulation
- Stranded tinned wire (7 x 32) • Reduced EMI
- Use for hook up wire • Weight: 100' (0.5 lbs.); 1000' (4.7 lbs.)

Part No.	Product No.	Color	100 ft.	Part No.	Product No.	Color	1000 ft.
105911	224GW/C	Green/White	$4.95	105806	224GW/K	Green/White	$39.95
173147	224RW/C	Red/White	4.95	173155	224RW/K	Red/White	39.95
173163	224BW/C	Black/White	4.95	173171	224BW/K	Black/White	39.95

Modular Network Cable – 100 MHz



118130

24 AWG UTP Category 5

- 100MHz • Color: gray • 8C • 4 twisted pairs
- Insulation: polyethylene • Nom. OD.: 189" • Nom. impedance: 100Ω

118130: uses modular plug P/N 79281, pg 152
118113: uses modular plug P/N 119343, pg 152

• **Prepackaged and priced in increments of 25' or 100'**

Part No.	Description	25 ft.	100 ft.	1000 ft.
118113	Solid	$4.00	$11.00	$90.00
118130	Stranded (7/32 AWG)	5.50	15.00	130.00

Modular Network Cable – 350 MHz



176233

24AWG UTP Category 5 Enhanced

- 350MHz • Color: gray • 8C • 4 twisted pair

• **Prepackaged and priced in increments of 25' or 100'**

Part No.	Description	25 ft.	100 ft.	1000 ft.
176225	Solid	$5.00	$14.00	$80.00
176233	Stranded (24AWG)	6.00	18.00	150.00

24 AWG Multiconductor Shielded Computer Communication Cable



31843

- Stranded copper wire, multi-colored insulation
- Insulated with polyvinyl chloride (PVC) • Drain wire
- 24 AWG (7 x 32 AWG) • Color: gray • Voltage rating: 300V
- Shielded 100% w/ aluminum mylar

• **Prepackaged and priced in increments of 25' or 100'**

Part No.	Prod. No.	Conductors	Diameter	25 ft.	100 ft.	1000 ft.
31860	SC4	4	0.20"	$4.75	$14.00	$110.00
31878	SC9	9	0.23"	9.75	25.00	190.00
31843	SC15	15	0.28"	13.75	35.00	210.00
31851	SC25	25	0.37"	17.25	49.00	300.00

30 AWG Kynar™ Wire Wrap Wire



22541

- Assorted color coded insulation • Used for prototyping
- Color coded Kynar™ (Polyvindene Fluoride) insulation
- Silver plated copper (solid conductor) • UL 1423
- Temperature: -40°C to +125°C • See pg 50 for sockets
- Wire wrap tools, pg 105 • Passes UL VW-1 flame test

Part No.	Color	Weight (lbs.)	100 ft.	Part No.	Color	Weight (lbs.)	1000 ft.
22541	Blue	0.1	$3.95	22550	Blue	0.6	$29.95
22576	Black	0.1	3.95	22584	Black	0.6	29.95
22630	Red	0.1	3.95	22648	Red	0.6	29.95
22664	White	0.1	3.95	22672	White	0.6	27.95
22605	Green	0.1	3.95	22613	Green	0.6	27.95
22699	Yellow	0.1	3.95	22701	Yellow	0.6	29.95

Wire Connectors



182457 182481

182553 182570 140716

- Material: UL approved nylon 66, 94V2
- Quick and secure method to splice control wires
- Strip wire before application • Twist on type
- * Requires crimping tool (P/N 72995 pg 108)

• **10 piece minimum**

Part No.	Description	Material	Color	10	100	1000
182431	Crimp 22-16 AWG*	Nylon 66, 94-2	Natural	$.03	$.025	$.02
182449	Crimp16-14 AWG*	Nylon 66, 94-2	Natural	.04	.035	.03
182457	Crimp12-10 AWG*	Nylon 66, 94-2	Natural	.07	.05	.04
182465	Crimp 8 AWG*	Nylon 66, 94-2	Natural	.07	.06	.05
182473	Wire-nut 18 AWG x 2	UREA Plastic	Yellow	.03	.025	.02
182481	Wire-nut 16 AWG x 3	UREA Plastic	Ivory	.03	.025	.02
182490	Wire-nut 16 AWG x 3	UREA Plastic	Yellow	.03	.025	.02
182502	Wire-nut 16 AWG	PVC w/ metal spring	Grey	.03	.025	.02
182511	Wire-nut 16 AWG	PVC w/ metal spring	Blue	.04	.035	.03
182529	Wire-nut 16 AWG	PVC w/ metal spring	Orange	.03	.025	.02
182537	Wire-nut 14 AWG	PVC w/ metal spring	Yellow	.06	.05	.04
182545	Wire-nut 12 AWG	PVC w/ metal spring	Red	.08	.05	.04
182553	Wire w/ nut 12 AWG	Metal spring w/ wing	Yellow	.08	.05	.04
182561	Wire w/ nut 10 AWG	Metal spring w/ wing	Red	.10	.07	.05
182570	Wire IDC 14 AWG	Nylon 66, 94-2	Blue	.08	.05	.04
140724	Wire IDC 18-14 AWG	PE - metal inside	Blue	.12	.08	.06
140716	Wire IDC 22-18 AWG	PE - metal inside	Red	.12	.08	.06

Call for OEM pricing – we carry major manufacturers.

18/20/22 AWG Stranded Hook-up Wire



300 Volts • 80°C • PVC insulation
• CSA: TR-64 • UL style: 1007
• Temperature range: -40°C to +80°C • **Sold in 100' rolls**

Part No.	Product No.	AWG	Strands (No. x AWG)	Color	Weight (lbs.)	1	10
126084	223SBK/C	22	7 x 30	Black	0.4	$2.95	$2.49
126033	223SR/C	22	7 x 30	Red	0.4	2.95	2.49
126076	223SW/C	22	7 x 30	White	0.4	2.95	2.49
125840	203SBK/C	20	10 x 30	Black	0.6	3.49	2.95
125794	203SR/C	20	10 x 30	Red	0.5	3.49	2.95
125831	203SW/C	20	10 x 30	White	0.5	3.49	2.65
125786	183SBK/C	18	16 x 30	Black	0.8	3.95	3.49
125735	183SR/C	18	16 x 30	Red	0.8	3.95	3.49
125751	183SW/C	18	16 x 30	White	0.8	3.95	3.25

22 AWG Solid Hook-up Wire



600 Volts
• 105°C • PVC insulation • Tinned copper
• Temperature range: -55°C to +105°C
• MIL-W-16878D Type B • Passes UL VW-1 flame test
• For use with breadboards such as the JE20 series, pg 96
• Weight: 100' (0.3 lbs.); 1000' (3.8 lbs.)

Part No.	Product No.	Color	100 ft.
36767	122BE/C	Blue	$4.25
36791	122BK/C	Black	4.25
36821	122G/C	Green	4.25
36855	122R/C	Red	4.25
36880	122W/C	White	4.25
36919	122Y/C	Yellow	4.25

Part No.	Product No.	Color	1000 ft.
36775	122BE/K	Blue	$29.95
36804	122BK/K	Black	29.95
36839	122G/K	Green	29.95
36863	122R/K	Red	29.95
36898	122W/K	White	29.95
36927	122Y/K	Yellow	29.95

28 AWG Modular Telephone Cable

103430



• Color coded conductors • Flat modular cable
• PVC jacket • Gray • 7 x 43 stranded

Part No.	Product No.	Conductors	100 ft.	1000 ft.	10000 ft.
103430	MTC4	4	$3.30	$30.00	$250.00
103448	MTC6	6	7.00	40.00	350.00
103450	MTC8	8	10.00	60.00	500.00

Reasons for Shopping at Jameco...

First Class Technical Support
99.7% Availability Value Pricing 24/7/365 Ordering
Over 6,000 New & Out-of-Production Electronic Products

30 AWG Tri-Color Wire/Dispenser



Includes: Three 50' spools of 30 AWG wire (blue, white and red) and push button cutter

Part No.	Product No.	1	10
117807	WD-30-TRI	$24.95	$22.49

Cable Tie Tools



73402



182297



182271

• 2.5 - 5mm width (of cable)
• Twist to cut surplus tie end

Part No.	Product No.	1	10	100
73402	0302TG-6	$9.95	$8.95	$7.95
182297	0302TG-7	19.95	17.95	15.95
182271	0302TG-3	49.95	45.95	39.95

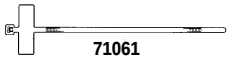
AC Cord Cable Tie



• Reusable • Color: black
• Length: 6" • **100 piece minimum**

Part No.	Description	100	1000
183185	Cable tie	$.09	$.08

Nylon Cable ID Ties and Tabs



71061

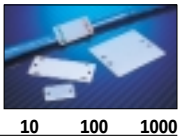
135175

71061: Clear ID tab (0.98" x 0.31")
182692: White ID tab (18 lb. tensile strength)
135175: Nylon cable tie ID marker

Sold in increments of 10, 100 or 1000

Part No.	Size	10	100	1000
71061	4.0"L x 0.1"W	$.14	$.08	$.06
182692	8.0"L x .10"W	.14	.08	.06
135175	2.0"L x 0.8"W x .02"T	.19	.15	.10

Cable Markers



• UL approved natural nylon

10 piece minimum

Part No.	Size	10	100	1000
182705	1.5"L x .75"W	$.10	$.09	$.08
182713	2.5"L x 1.76"W	.13	.12	.10

Nylon Cable Ties



70560

Standard
• Cable ties made from UL approved nylon 66
• Temperature range: -40°C to +85°C • Flammability rating: UL 94V-2

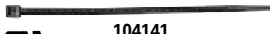
Sold in 100s or 1000s

Part No.	Description	Tensile Strength	Dimensions	100	1000
70560	Clear cable tie	18 lbs.	3.1"L x 0.10"W	$.025	$.015
126543	Clear cable tie	18 lbs.	4.0"L x 0.10"W	.025	.015
182676	Black cable tie	18 lbs.	4.75"L x 0.13"W	.04	.03
182650	White cable tie	18 lbs.	5.5"L x 0.13"W	.04	.03
139150	Clear cable tie	18 lbs.	8.0"L x 0.10"W	.03	.02
182668	White cable tie	18 lbs.	8.0"L x 0.13"W	.045	.035
182684	White cable tie	18 lbs.	8.0"L x 0.18"W	.09	.07
70906	Clear cable tie	40 lbs.	5.8"L x 0.10"W	.03	.02
190756	Clear cable tie	40 lbs.	10.0"L x 0.14"W	.07	.06
190772	Clear cable tie	40 lbs.	11.0"L x 0.19"W	.09	.075
190764	Clear cable tie	40 lbs.	13.0"L x 0.14"W	.08	.065

Weather Resistant
• Contain Carbonate A for greater resistance to ultra violet rays in outdoor use

UV Resistant

Sold in 100s or 1000s



104141

Part No.	Description	Tensile Strength	Dimensions	100	1000
139125	Black cable tie	18 lbs.	3.0"L x 0.90"W	$.025	$.015
104141	Black cable tie	18 lbs.	4.0"L x 0.10"W	.025	.015
104133	Black cable tie	40 lbs.	5.8"L x 0.10"W	.03	.02
190799	Black cable tie	40 lbs.	10.0"L x 0.14"W	.075	.065
190801	Black cable tie	40 lbs.	13.0"L x 0.14"W	.09	.07
190781	Black cable tie	40 lbs.	8.0"L x 0.13"W	.05	.04
139141	Black cable tie	50 lbs.	4.8"L x 0.18"W	.04	.03

Cable Tie Assortments
• Tensile strength: 18-50 lbs.
145701: 1000 pcs. (4"L)
150412: 500 pcs. (4"L); 300 pcs. (8"L); 50 pcs. (11"L)



145701 (closeup)



145701

Part No.	Description	Wt. (lbs.)	1	10	50
145701	Canister pack, 10 colors (1000 pcs.)	0.7	$9.49	$8.49	$5.95
150412	Canister pack, 5 colors (850 pcs.)	1.7	13.95	11.49	9.95

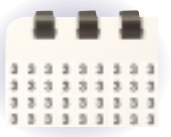
3M Tape Wire Markers



• For marking wires with numerical sequence
• Self adhesive tapes numbered 0-9
• Size: (tape) 96"L x 0.25"W

Part No.	Description	1	10
159231	Numerical tape dispenser	$32.95	$29.95

Self Adhesive Wire Marker



• Stick to wires for permanent identification
• Cloth tape label numbered 0-9
• Used extensively for cable diameter after or before terminal attachment

Part No.	Product No.	1	10
182262	0215WMB-1	$7.99	$6.99

Log onto www.jameco.com for our Complete Technical Document Library

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

Cable Clamps

- Tie mount and screw tab cable clamps
- Material: UL approved nylon 66, 94V-2

Sold in increments of 10, 100 or 1000

182941  182300 


182318


182334


134754

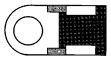
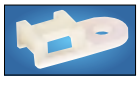

173753

Part No.	Product No.	Description	10	100	1000
182941	0505HC-101S	Tie mount cable .75"D; 4-way self adhesive	$.07	$.06	$.05
182300	0510HC-2	Tie mount cable .5"D; #6 screw	.17	.13	.09
182318	0519ATC-17	Tie mount cable .7"D ADJ; 2-way #6 screw	.59	.49	.35
182376	0519ATC-22	Tie mount cable .9"D ADJ; 2-way #6 screw	.59	.49	.39
182334	0520FC-1	Tie mount cable .1"D; self adhesive	.17	.13	.08
182342	0520FC-2	Tie mount cable .2"D; self adhesive	.19	.15	.10
173711	UC0	Cable clamp for 1/8" cable	.06	.025	.016
173729	UC0.5	Cable clamp for 3/16" cable	.06	.03	.02
173737	UC1	Cable clamp for 1/4" cable	.06	.03	.02
173745	UC1.5	Cable clamp for 5/16" cable	.06	.03	.02
134754	BO375	Cable clamp for 3/8" cable	.06	.03	.02
173753	UC3	Cable clamp for 1/2" cable	.06	.03	.02

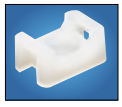
Nylon Cable Tie Mounts

- Screw tab & cradle mount adhesive

Sold in increments of 10, 100 or 1000

70594  

71407
71394
71386 


173761

Part No.	Description	10	100	1000
70594	0.8"L x 0.4"W screw 4-way cable tie, used w/ 0.2"W max	$.15	$.10	$.06
171213	0.5" square adhesive 4-way cable tie, used w/ 0.1"W max	.15	.10	.06
71407	0.9" square adhesive 4-way cable tie, used w/ 0.1"W max	.17	.13	.09
71394	1.1" square adhesive 4-way cable tie, used w/ 0.2"W max	.19	.15	.11
71386	1.1" square adhesive 2-way cable tie, used w/ 0.4"W max	.17	.12	.09
173761	0.6"L x 0.4"W cable tie, saddle type	.15	.10	.06

Stand Off Twist and Saddle Fasteners

SALE

- Material: UL approved natural nylon 66, 94V2
- For directing and gathering cables at low cost
- Effective cable securing method
- 1202 Series: locks into 4.8mm hole with fingertip pressure

Sold in increments of 10, 100 or 1000


1205 Series


1202 Series

Part No.	Product No.	Description	10	100	1000
182625	1205ST-0560	Twist tie .2"W	$.06	$.05	$.04
182633	1205ST-1112	Twist tie .4"W	.06	.05	.04
182641	1205ST-1247	Twist tie .5"W	.06	.05	.04
182588	1202KWS-0N	Lock, Sad. .1"W	.05	.04	.03
182596	1202KWS-1N	Lock, Sad. .3"W	.05	.04	.03
182609	1202KWS-2N	Lock, Sad. .7"W	.06	.05	.04
182617	1202KWS-3N	Lock, Sad. 1"W	.07	.06	.05

Wire Management Assorted Kits

195207: 50 pcs. assorted colors; 25 pcs. 8" and 25 pcs. 11"
195194: 75 pcs. assorted colors; 25 pcs. each 3¾" white, 4¾" red and 7½" yellow
195215: 100 pc. wire management assortment; 30 pcs. 3" cable ties, 20 pcs. 4" cable ties, 9 pcs. each 14-16AWG and 10-12AWG wire connectors, 10 pcs. 14-18AWG wire connectors; 6 pcs. 3/16", 8 pcs. each ¼" and ⅜" cable clamps


195207


195194

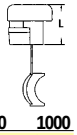

195215

Part No.	Product No.	Description	1	10	50
195207	VP-50-811C	Cable tie assortment	$1.95	$1.75	$1.58
195194	BP-75	Cable tie assortment	1.95	1.75	1.58
195215	BP-100	Cable ties, clamps, and wire connectors assortment	1.95	1.75	1.58

Find what you need – www.jameco.com

Strain Relief Bushings

- Material: UL approved nylon 66, 94V-2
- Color: black
- Used extensively for protecting cords and to prolong cord life
- Bushing tool: P/N 73470, above
- **10 piece minimum**



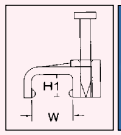
SALE

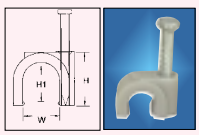
182414 

182369 

Part No.	Cable Type	Length	10	100	1000
182385	Flat, SPT3	10.3mm	$.07	$.05	$.04
182393	Flat, SPT3	15.2mm	.05	.04	.03
182406	Flat, SPT2	10.3mm	.04	.035	.03
182414	Flat, SPT2	Right angle; 10.3mm	.09	.08	.07
182422	Flat, SPT1/SPT2	Right angle; 10.3mm	.12	.11	.09
182351	Round, SVI/SVT	11.0mm	.07	.05	.04
182369	Round, SJ/SJT; 16 AWG	14.8mm	.10	.08	.05
182377	Round, SJC; 18 AWG	14.8mm	.10	.08	.05

Nail Cable Clips


190810


190861

- Material: impact resistant PE
- With nails inserted

For telephone cords; white

Part No.	Prod. No.	W x H x H1 (mm)	100	1000
190810	NF0.7	5.5 x 5.5 x 3.1	$.055	$.04
190828	NF1.2	6.2 x 5.4 x 3.8	.055	.04
190836	NF1.6	8.0 x 8.0 x 5.0	.055	.04
190844	NF2.0	8.5 x 8.0 x 5.2	.06	.045
190852	NF2.8	15 x 12.8 x 8.7	.09	.06

For general round cables; grey

Part No.	Prod. No.	W x H x H1 (mm)	100	1000
190861	NCO.35N	3.5 x 5.9 x 3.7	$.06	$.045
190879	NC0.5N	5.0 x 7.6 x 5.3	.06	.045
190887	NC1N	6.0 x 9.0 x 6.6	.07	.05
190895	NC2N	8 x 11.5 x 8.6	.08	.055
190908	NC3N	10 x 13.4 x 10.5	.09	.06

PVC and Polyolefin Heat Shrink Tubing - 39" (1 Meter) Length

- 2:1 uniform shrink ratio
- Color: black
- Temperature range: -45˚C to +125˚C
- Shrink temp.: 175˚C
- See page 115 for heat guns
- **Length 39" (1 meter), sold as 1 increment**


72063

PVC Heat Shrink Flat Film

Part No.	Flat	Unshrunk Cir. Dia.	Shrunk Cir. Dia.	1	10	100
70631	5/16"	1/4"	1/8"	$.59	$.49	$.29
70623	1/2"	5/16"	3/16"	.65	.55	.35
70666	13/16"	9/16"	1/4"	.85	.65	.29

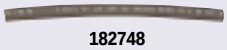
Polyolefin Heat Shrink Tubing

- Dielectric strength: 1300V
- Flexible
- Shrink temperature: 121°C
- Flame retardant

Part No.	Before	After (Dia.)	1	10	100
71327	1/16"	1/32"	$.59	$.49	$.39
71870	3/32"	3/64"	.65	.55	.39
71280	1/8"	1/16"	.75	.59	.49
72063	1/4"	1/8"	.99	.79	.65

PVC Heat Shrink Tubing

- 2:1 uniform shrink ratio
- Color: black
- Shrink temp: 125˚C
- Sold in 10' and 100' increments
- UL/CSA approved
- See page 115 for heat guns


182748


182772

Part No.	Dia. before (mm)	10	100
184721	.12" (3)	$1.19	$10.49
182730	.16" (4)	1.39	12.49
182748	.20" (5)	1.45	12.95
182756	.24" (6)	1.49	13.49
182764	.31" (8)	1.79	15.95
182772	.43" (11)	2.49	22.49
182781	.59" (15)	2.95	26.49

TECHFLEX Cable Sleeve

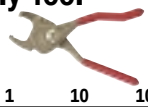
Clean Cut Expandable Sleeving

- Flame resistant
- Applications: protecting wires, cables and hoses
- Operating temp.: -70˚C to 125˚C


162157
Sold in spools of 25'

Part No.	Product No.	Actual/Expanded Dia.	1	10
162157	CCPT2X	.125"/.440"	$14.95	$11.95
162165	CCPT3X	.250"/.750"	17.95	14.49

Bushing Assembly Tool

- For use with strain relief bushings, pg 92

Part No.	Description	1	10	100
73470	Bushing tool	$29.95	$26.95	$23.95

Braided Nylon Lacing Tape



- Waxed finish • Braided
- Excellent knot retention
- Meets specification: MIL-T-43435B
- Size: .085"W x 500 yards long

174369

Part No.	Description	1	10
174369	Lacing Tape (natural)	$17.95	$15.95
189798	Lacing Tape (black)	24.95	22.49

Black Electrical PVC Tape (30')



- Cold and weather resistant
- UL approved
- Length: 30'
- Size: 7 mil thick x .75"W x 30'L

Part No.	Description	1	10	100
150527	Electrical tape	$.69	$.59	$.49



Same business day shipping until 6:00 p.m. EST.

See page 182 for Zone Chart

Call for OEM pricing – we carry major manufacturers.

Assembled BNC Coax Cables



181307 152311 85542

- Pre-assembled with male coax connectors

RG6 75Ω Cables

Part No.	Description	1	10	50	100
176794	3' BNC to BNC	$3.95	$3.55	$3.19	$2.89
176815	6' BNC to BNC	4.95	4.49	3.95	3.59

RG58/U 50Ω Cables

- For Ethernet networks, oscilloscopes

* **152311** has male and female coax connectors

Part No.	Prod. No.	Length (ft.)	1	10	50	100
181307	CRG58-1RR	1	$2.49	$2.25	$1.95	$1.75
102314	CRG58-1	1.5	2.25	1.95	1.75	1.49
11404	CRG58-3	3	2.75	2.49	2.25	1.95
102331	CRG58-6	6	3.25	2.75	2.49	2.25
152311*	RG58MF-6	6	2.95	2.49	2.25	1.95
180822	CRG58-10	10	3.95	3.49	2.75	2.25
102349	CRG58-12	12	4.49	3.95	3.49	2.75
169818	CRG58-15	15	4.39	3.95	2.95	2.65
180849	CRG58-22	22	4.95	4.49	3.95	3.49
102357	CRG58-25	25	5.49	4.95	4.49	3.49
102365	CRG58-50	50	7.95	6.95	4.95	4.49
102381	CRG58-100	100	13.49	11.95	10.95	9.49

RG59/U 75Ω Cables

- For CATV and video patch cords

Part No.	Product No.	Length	1	10	50	100
86471	CRG59-1	1.5 ft.	$2.49	$2.25	$1.75	$1.49
85542	CRG59-6	6 ft.	2.95	2.49	2.25	1.95
102373	CRG59-12	12 ft.	4.49	3.95	3.25	2.49

RG174/U 50Ω Cables

- For Ethernet networks, oscilloscopes

Part No.	Product No.	Length	1	10	50	100
111472	RG174U3	3 ft.	$3.25	$2.75	$2.49	$1.95
111481	RG174U6	6 ft.	3.49	2.95	2.75	2.25

Assembled SMA/SMB 50Ω Coax



Fig. 1 Fig. 2 Fig. 3 Fig. 4

Fig. 1: SMA male to SMA male
Fig. 2: SMA male to SMA right angle male
Fig. 3: SMA right angle male to SMA right angle male
Fig. 4: SMB male to SMB male

Part No.	Cable	Fig.	Length	1	10	50
159370	RG58	1	2.0 ft.	$3.95	$3.49	$2.75
159396	RG58	1	6.0 ft.	4.95	4.49	3.49
169800	RG174	1	0.5 ft.	3.75	3.25	2.75
163854	RG174	1	1.0 ft.	3.95	3.49	2.75
153381	RG174	1	2.0 ft.	4.25	3.75	2.95
153390	RG174	1	4.0 ft.	4.95	3.95	3.49
159450	RG174	1	6.0 ft.	5.75	5.25	4.75
175126	RG174	2	0.5 ft.	4.49	3.95	3.49
175134	RG174	2	1.0 ft.	4.95	4.25	3.75
175142	RG174	3	0.5 ft.	5.75	5.25	4.49
175151	RG174	3	1.0 ft.	6.25	5.75	4.75
175169	RG174	4	0.5 ft.	4.25	3.75	2.95
175177	RG174	4	1.0 ft.	4.75	4.25	3.25

Assembled F-Type Coax Cables

- Typical application: F connector (VCR)
- Low signal loss
- Strain relief



RG6/U 75Ω Cables

Part No.	Description	1	10	50	100
177228	3' F-type M/M	$1.25	$1.15	$1.05	$.89

RG59/U 75Ω Cable

Part No.	Description	1	10	50	100
85585	3.3' F-type M/M	$1.25	$1.09	$.99	$.89

Jameco Electronics
The Products You Need...
The Service You Deserve!

BNC Coax T-Adapters



118594 72629 100589 100597 117461

Application: general purpose coax T-adapter; ThinNet/Ethernet LAN adapter

Part No.	Description	1	10	100	500
118594	Male to female/female T-adapter	$1.95	$1.58	$1.07	$.72
72629	Female to female/female T-adapter	1.95	1.75	1.25	.99
100589	Male to female/female T-adapter (90°)	2.95	2.49	2.25	1.95
100597	Male to female/female T-adapter (180°)	4.75	4.25	3.49	2.75
117461	Male to female/female F-adapter (90°)	3.49	2.95	2.25	1.95

BNC 50Ω Adapters

Amphenol



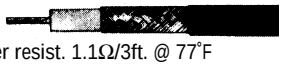
188411 188429 188402

- Silver-plated
- Frequency range: 0-4GHz w/ low reflection

Part No.	Amphenol No.	Description	1	10	50
188411	31-219-RFX	Straight jack-to-jack	$2.59	$1.95	$1.49
188429	31-208-RFX	Jack-plug-jack	4.69	3.59	2.39
188402	31-220G-RFX	Gasketed jack-to-jack	4.08	3.29	2.09

See page 58 for more BNC adapters

RG Type Coaxial Cable



RG6 (75Ω): • Nominal. capac. 16.2pF/ft. • Center resist. 1.1Ω/3ft. @ 77˚F
RG58/U & RG58A/U (50Ω):
• Nom. capac. 27pF/ft. • Center resist. 10.4Ω/1kft. @ 77˚F
RG59/U (75Ω): • Nominal capac. 19pF/ft. • Center resist. 16.5Ω/1kft. @ 77˚F
RG174/U (50Ω): • Nominal capac. 30.8pF/ft. • Center resist. 97Ω/1kft. @ 77˚F

- **Prepackaged and priced in increments of 100'or 1000'**

Part No.	Product No.	Description	100 ft.	1000 ft.
177210	RG6	For CATV, satellite	$20.00	$160.00
102226	RG58/U	For ethernet, oscilloscopes (solid 20AWG)	8.00	65.00
116898	RG58A/U	For ethernet, oscilloscopes (stranded 20AWG)	14.00	100.00
102218	RG59/U	For CATV and video patch cords (solid 22AWG)	11.00	80.00
112037	RG174/U	For ethernet, oscilloscopes (stranded 26AWG)	13.00	95.00

Coaxial Cable Stripper

- Strips RG58, 59 and 62 cable
- Replaceable blades
- Size: 4.2"L x 0.8"W

For our complete selection of tools See pages 105-110



Part No.	Description	1	10
73066	3-bladed coax cable stripper	$15.95	$10.95

Click on www.jameco.com

Join our "Live Wire" today to receive e-mail alerts on New products and Special Promotions



Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

International Power Cords

- 3-conductor detachable power cords
- Voltage rating: 300 volts
- Excellent resistance to jacket abrasion
- IMQ: Instituto Italiano del marchio di Qualita
- BSI: British Standard InstitutionZ

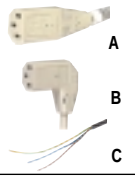
SALE

European Agency Approvals

Germany	VDE		France	LCIE	
Austria	OVE		Netherlands	KEMA	
Belgium	CEBEC		Norway	NEMKO	
Denmark	DEMKO		Sweden	SEMKO	
Finland	FIMKO		Switzerland	SEV	

Fig. 6

Cord Configuration Chart - End 1



Cord Configuration Chart - End 2


173876 (Fig. 1)


172195 (Fig. 2)


173841 (Fig. 3)


174633 (Fig. 4)


177341 (Fig. 5)

Part Number	Product Number	Country	Weight (lbs.)	Agency Approvals	Cord Plug Fig. End 1	Cord Plug Fig. End 2	Length	Cord Color	Conductors	Cord Type	Pricing 1	10	100	250
173868	2171H576G	Europe	0.4	All in Fig. 6	A	1	6 ft.	Gray	3/.75mm²	H05VVF	**$1.79**	**$1.65**	**$1.49**	**$1.35**
117911	PCVDE-6B	Europe	0.4	All in Fig. 6	A	1	6 ft.	Black	3/.75mm²	H05VVF	**4.25**	**3.75**	**3.25**	**2.75**
173876	21H516S	Europe	0.4	All in Fig. 6	C	1	5 ft.	Black	3/1.0mm²	H05VVF	**3.49**	**2.95**	**2.49**	**1.95**
138270	H05VVF	Europe	0.4	All in Fig. 6	A	1	6 ft.	Beige	3/1.0mm²	H05VVF/HAR	**3.75**	**3.25**	**2.75**	**2.25**
147897	CL102	Europe	0.4	All in Fig. 6	A	3	6 ft.	Black	3/.75mm²	H05VVF	**2.25**	**1.95**	**1.75**	**1.55**
173841	2271H376G	Europe	0.4	All in Fig. 6	A	3	6 ft.	Gray	3/.75mm²	H03VVF	**2.95**	**2.66**	**2.12**	**1.56**
173850	2271H518G	Europe	0.6	All in Fig. 6	A	3	8 ft.	Gray	3/1.0mm²	H05VVF	**2.29**	**2.07**	**1.86**	**1.68**
171934	8120-6174	Europe	0.5	All in Fig. 6	B	1	7.5 ft	Beige	3/.75mm²	H05VVF/HAR	**1.09**	**.99**	**.89**	**.79**
173817	KC-015A	Europe	0.9	All in Fig. 6	A	1	14 ft.	Black	3/1.0mm²	H05VVF	**1.99**	**1.79**	**1.59**	**1.45**
177341	86559011	India/Africa	0.7	VDE	A	5	9 ft.	Black	3/1.0mm²	HAR	**5.95**	**5.49**	**4.95**	**4.49**
172195	8120-6979	Italy	0.4	IMQ	B	2	6 ft.	Gray	18/3	SVT	**1.49**	**1.21**	**1.09**	**.95**
184891	WS-012A	UK/Ireland	0.6	BSI	A	5	6 ft.	Black	3/1.0mm²	H05VVF	**4.49**	**3.95**	**3.49**	**2.95**
174633	21071H5182	UK/Ireland	0.7	BSI	A	4	8 ft.	Black	3/1.0mm²	H05VVF	**5.95**	**5.49**	**4.49**	**3.95**

International Right Angle Power Adapters

SALE

- Use as power cord replacements for table-top power supplies, see page 70
- Molded PVC construction
- Removes excess cordage from work area

Part No.	Description	Rating	Country	1	10	100	250
176188	NEMA-15P to IEC CI3	10A @ 115VAC	USA	**$1.39**	**$1.25**	**$1.13**	**$1.02**
176196	B51363/A to IEC-C13	13A @ 250VAC	UK	**2.95**	**2.75**	**—**	**—**


176188


176196

110VAC to 220VAC Step-Up / 220VAC to 110VAC Step-Down Transformers

International step-up/step-down transformers

- Wide selection to meet your power requirements


Fig. 1


Fig. 2



Fig. 3


Fig. A Plug


Fig. B Plug


Output Plug

Part Number	Product Number	Fig	Power (VA)	Primary Voltage	Secondary Voltage	Dimensions H"	W"	D"	Weight (lbs.)	Pricing 1	10	100
99573	AC110V50	1/A	50	220VAC	110VAC	2.50	1.63	1.33	0.7	**$6.95**	**$6.25**	**$4.95**
85016	AC110V300	3/A	300	220VAC	110VAC	3.50	3.05	3.95	4.8	**24.95**	**22.49**	**19.95**
111851	AC110V500	2/A	500	220VAC	110VAC	3.99	3.60	4.84	8.5	**31.95**	**28.95**	**25.95**
142906	AC110V1500	2/A	1500	220VAC	110VAC	5.25	4.50	5.75	15.2	**69.95**	**59.95**	**56.95**
99477	AC220V50	1/B	50	110VAC	220VAC	2.50	1.63	1.33	0.7	**6.95**	**6.25**	**4.95**
85008	AC220V300	3/B	300	110VAC	220VAC	3.50	3.05	3.95	4.8	**24.95**	**22.49**	**19.95**

International 50 Watt Plug-In Step-Down Wall Transformer

Converts foreign 220/240VAC to 110/120VAC. Built-in input plugs for Europe/Middle East; England/Africa and Australia/Philippines outlets.



- Input voltage: 220/240VAC
- Output voltage: 110/120VAC
- Input selectable prongs for applicable countries
- 2-prong flat or round receptacle compatible
- LED status indicator for power
- Size: 4.4"H x 2.0"W x 2.0"D • Weight: 1.0 lb.

Part No.	Description	1	10	25
191783	Int'l transformer	**$19.95**	**$17.95**	**$15.95**

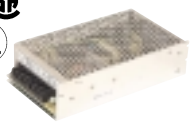
PHIHONG 110 Watt Switching DC Power Supply



- **Output voltage:**
  +5VDC @ 9A
  +12VDC @ 3.5A
  +12VDC @ 0.75A
  -12VDC @ 0.75A
- Input voltage: 90-264VAC @ 47-63Hz
- Minimum load: all outputs at 10% of rated load
- Size: 6.8"L x 3.6"W x 1.7"H
- Weight: 1.4 lbs.
- ***For complete specifications, see page 74***

Part No.	Product No.	1	10	50	100
189552	PSA110402	**$24.95**	**$22.49**	**$19.95**	**$17.95**

150 Watt Single Output Switching Power Supply



- **Output voltage:**
  +12VDC @ 12.5A
- Input voltage: 90 to 130VAC or 180 to 260VAC
- No minimum load required
- Size: 7.8"L x 4.3"W x 2.0"H
- Weight: 1.8 lbs.
- ***For complete specifications see page 77***

Part No.	Product No.	1	10	50
123422	S-150-12	**$59.95**	**$53.95**	**$47.95**

ATX Compatible 250 Watt Computer Power Supply



- **Output voltage:**
  +3.3V @ 15
  +5V @ 26A
  +5VSB @ 1A
  +12V @ 9A
  -5V @ 0.5A
  -12V @ 0.5A
- Input voltage: 115/230V @ 50-60 (switchable)
- Size: 5.5"L x 5.9"W x 3.4"H • Weight: 3.3 lbs.
- ***For complete specifications, see page 79***

Part No.	Product No.	Description	1	10	25
152514	JE8250	250 watt	**$49.95**	**$44.95**	**$39.95**

2MHz Sweep Function Generator with 6-Digit Frequency Counter



- Input voltage: 115/230VAC @ 50/60Hz (switch selectable)
- Frequency range: 0.02Hz to 2MHz in 7 ranges
- Output impedance: 50Ω ±5%
- Frequency counter range: 2Hz to 50MHz
- Maximum input voltage: 250Vp-p
- ***For complete specifications see page 126***

Part No.	Product No.	Description	1	5
94676	FG7002C	Function gen.	**$329.95**	**$296.95**

250 Watt Benchtop Power Supply

50VDC @ 5A



- Adjustable voltage/current outputs
- Constant voltage and current operation
- Color-coded adjustment knobs for voltage, current, and fine tuning
- Color-coded terminals for ground, positive, negative
- Input voltage: 220VAC @ 50-60Hz
- ***For complete specifications, see page 127***

Part No.	Product No.	1	10	25
175249	DPS5050.....	**$159.95**	**$143.95**	**$130.95**

For Our Complete Line of Power Supplies see pages 70-79

- Molded connectors
- Excellent resistance to jacket abrasion
- Temperature: -20°C to +60°C
- Voltage rating: 300 volts

SALE

AWG	Volts	Amps	VA
18	125	10	1250
16	125	12	1500
14	125	15	1875


Line Cord (Fig. 1)


Laptop Power Cord (Fig. 2)


Power Cord (Fig. 3)


Shielded Power Cord (Fig. 4)


184815 (Fig. 5)


Computer Power Cord (Fig. 6)


RFI Power Cord (Fig. 7)


Right Angle Computer (Fig. 8)


Piggy-Backed Computer (Fig. 9)


Power Supply Extension (Fig. 10)


Shielded Power Cord (Fig. 11)


Monitor Power Adapter Cord (Fig. 12)


173892 (Fig. 13)


115078 (Fig. 14)


173884 (Fig. 15)

Part Number	Product Number	Description	Weight (lbs.)	Agency Approvals	Plug Fig.	Length	Color	AWG	Cord Type*	Pricing 1	10	100	250
112723	E74713	2-conductor power cord with pigtail	.13	UL/CSA	1	5'	Gray	18/2	SPT-1	**$.70**	**$.65**	**$.60**	**$.55**
152186	17106BG	2-conductor power cord with pigtail	.20	UL/CSA	1	6'	Beige	18/2	SPT-2	**.65**	**.49**	**.39**	**.24**
124433	ST008	2-conductor power cord with pigtail	.16	UL/CSA	1	6'	Black	18/2	SPT-2	**1.25**	**.99**	**.79**	**.65**
42041	17106	2-conductor power cord with pigtail with strain relief	.25	UL/CSA	1	6'	Black	18/2	SPT-2	**.95**	**.79**	**.69**	**.55**
146309	PC182J6	2-conductor power cord (round) with pigtail	.31	UL/CSA	1	6'	Black	18/2	SJT	**.29**	**.26**	**.23**	**.21**
146317	PC182J8	2-conductor power cord (round) with pigtail	.41	UL/CSA	1	8'	Black	18/2	SJT	**.49**	**.45**	**.35**	**.25**
189587	VW-1	2-conductor power cord for laptop computer power supplies	.30	UL/CSA	2	6'	Black	18/2	SPT-2	**2.95**	**2.65**	**2.39**	**1.95**
38009	17237	3-conductor power cord with pigtail	.31	UL/CSA	3	6'	Gray	18/3	SVT	**2.49**	**2.25**	**1.95**	**1.75**
173809	17405	3-conductor power cord with pigtail	.39	UL/CSA	3	6'	Gray	18/3	SJT	**1.95**	**1.49**	**1.25**	**.99**
37997	17236	3-conductor power cord with pigtail	.30	UL/CSA	3	6'	Black	18/3	SVT	**2.49**	**2.25**	**1.95**	**1.75**
174545	172365	3-conductor power cord with pigtail with strain relief	.35	UL/CSA	3	6'	Black	18/3	SVT	**1.49**	**1.25**	**.99**	**.89**
159409	17405B	3-conductor power cord with pigtail	.37	UL/CSA	3	6'	Black	18/3	SJT	**2.95**	**2.49**	**2.25**	**1.95**
38025	17238	3-conductor power cord with pigtail	.39	UL/CSA	3	8'	Black	18/3	SVT	**2.95**	**2.49**	**2.25**	**1.95**
102007	17535B	3-conductor power cord with pigtail	.49	UL/CSA	3	10'	Black	18/3	SVT	**2.95**	**2.49**	**2.25**	**1.95**
177375	E141445	3-conductor power cord with pigtail	.26	UL/CSA	3	3'	Black	16/3	SJT	**.95**	**.85**	**.76**	**.69**
189456	LL35737	3-conductor power cord with pigtail	.33	UL/CSA	3	3'	Beige	14/3	SJT	**1.95**	**1.75**	**1.49**	**1.25**
166924	17516	3-conductor power cord with pigtail	.67	UL/CSA	3	6' 7"	Black	14/3	SJT	**2.95**	**2.25**	**1.65**	**1.39**
100271	17629B	3-conductor power cord with pigtail	.88	UL/CSA	3	9'	Black	14/3	SJT	**3.95**	**3.49**	**2.95**	**2.49**
160995	17720	3-conductor power cord with pigtail, shielded	.44	UL/CSA	4	8'	Black	18/3	SVT	**2.95**	**2.49**	**2.25**	**1.95**
184815	17629BR	3-conductor right angle power cord with pigtail	.77	UL/CSA	5	7'	Black	14/3	SJT	**3.95**	**3.15**	**2.35**	**1.99**
103747	17248	3-conductor detachable power supply cord	.34	UL/CSA	6	6'	Gray	18/3	SVT	**2.95**	**2.49**	**1.95**	**1.49**
173542	17660GY	3-conductor detachable power supply cord, shielded	.42	UL/CSA	6	6'	Gray	18/3	SVT	**1.95**	**1.75**	**1.49**	**1.39**
159492	17501G	3-conductor detachable power supply cord	.45	UL/CSA	6	6'	Gray	18/3	SJT	**1.29**	**1.19**	**1.09**	**.99**
38041	17249	3-conductor detachable power supply cord	.37	UL/CSA	6	6'	Beige	18/3	SVT	**3.49**	**2.95**	**2.49**	**1.95**
38050	17250	3-conductor detachable power supply cord	.36	UL/CSA	6	6'	Black	18/3	SVT	**3.75**	**3.25**	**2.75**	**2.25**
161761	17742	3-conductor detachable power supply cord, shielded	.40	UL/CSA	6	6'	Black	18/3	SVT	**3.95**	**3.49**	**2.75**	**2.49**
132118	17500	3-conductor detachable power supply cord	.44	UL/CSA	6	6'	Black	18/3	SJT	**3.95**	**3.49**	**2.95**	**2.49**
117583	17502	3-conductor detachable power supply cord	.37	UL/CSA	6	8'	Gray	18/3	SVT	**2.95**	**2.49**	**2.25**	**1.75**
171096	17758	3-conductor detachable power supply cord	.60	UL/CSA	6	8'	Black	18/3	SJT	**2.95**	**2.49**	**1.95**	**1.49**
102023	17501	3-conductor detachable power supply cord	.55	UL/CSA	6	10'	Black	18/3	SVT	**4.25**	**3.75**	**3.25**	**2.49**
192727	PPC-005	3-conductor detachable power supply cord	.33	UL/CSA	6	10'	Black	18/3	SJT	**4.49**	**3.95**	**3.49**	**2.95**
190625	37805	3-conductor detachable power supply cord, shielded	.75	UL/CSA	6	10'	Beige	18/3	SJT	**4.25**	**3.75**	**3.25**	**2.49**
163361	6952299	3-conductor detachable power supply cord	.33	UL/CSA	6	14'	Black	18/3	SJT	**4.95**	**4.49**	**3.95**	**2.95**
159361	17602	3-conductor detachable power supply cord	.57	UL/CSA	6	6'	Black	16/3	SJT	**2.95**	**2.49**	**2.25**	**1.95**
142607	WTP-003	3-conductor detachable power supply cord, shielded	.63	UL/CSA	6	6'	Black	16/3	SJT	**3.49**	**2.95**	**2.49**	**2.25**
125541	17504	3-conductor detachable power supply cord	.71	UL/CSA	6	6' 7"	Black	14/3	SJT	**3.95**	**3.25**	**2.75**	**2.25**
146069	VM0232S	3-conductor detachable power supply cord w/RFI filter	.73	UL/CSA	7	6' 8"	Gray	18/3	SJT	**1.45**	**1.29**	**1.16**	**1.05**
117356	8120-6177	3-conductor detachable right angle power supply cord	.41	UL/CSA	8	6'	Gray	18/3	SVT	**3.49**	**2.65**	**2.12**	**1.56**
163416	17608G	3-conductor detachable right angle power supply cord	.36	UL/CSA	8	6'	Gray	16/3	SJT	**1.85**	**1.65**	**1.50**	**—**
38076	17250R	3-conductor detachable right angle power supply cord	.54	UL/CSA	8	6'	Black	18/3	SVT	**3.49**	**2.95**	**2.49**	**1.95**
173251	1725ORS	3-conductor detachable right angle power supply cord, shielded	.40	UL/CSA	8	6'	Black	18/3	SVT	**2.95**	**2.49**	**1.95**	**1.49**
177383	17507	3-conductor detachable right angle power supply cord	.66	UL/CSA	8	10'	Black	18/3	SJT	**4.95**	**4.05**	**3.36**	**2.80**
172312	8120-5395	3-conductor detachable right angle power supply cord	.73	UL/CSA	8	8'	Black	16/3	SJT	**2.59**	**2.35**	**2.09**	**1.89**
84937	17669-6	3-conductor detachable piggy backed computer power cord	.47	UL/CSA	9	6'	Black	18/3	SJT	**6.95**	**6.25**	**5.59**	**4.95**
177439	PECBGE	3-conductor computer power supply extension cord	.36	UL/CSA	10	6'	Beige	18/3	SVT	**1.39**	**1.19**	**1.09**	**.99**
28468	PEC	3-conductor computer power supply extension cord	.36	UL/CSA	10	6'	Black	18/3	SVT	**3.25**	**2.75**	**2.25**	**1.95**
121291	PEC2	3-conductor computer power supply extension cord	.55	UL/CSA	10	8'	Black	18/3	SJT	**3.95**	**3.49**	**2.95**	**2.49**
175855	PECUL10	3-conductor computer power supply extension cord	.53	UL/CSA	10	10'	Black	18/3	SVT	**3.95**	**3.49**	**2.95**	**2.49**
170157	IS15	3-conductor right angle power supply extension cord	.34	UL/CSA	11	5'	Beige	18/3	SVT	**1.25**	**.99**	**.89**	**.79**
177447	MPC1	3-conductor monitor power adapter cord	.16	UL/CSA	12	1'	Black	18/3	SVT	**2.95**	**2.49**	**1.95**	**1.49**
26382	MPC6	3-conductor monitor power adapter cord	.40	UL/CSA	12	6'	Black	18/3	SVT	**3.49**	**2.95**	**2.49**	**2.29**
177455	MPC10	3-conductor monitor power adapter cord	.52	UL/CSA	12	10'	Black	18/3	SVT	**2.95**	**2.75**	**2.25**	**1.95**
173892	34J88T-1	3-conductor power cord w/ pigtail hospital grade (green dot)	.65	UL/CSA	13	8'	Black	18/3	SJT	**2.65**	**2.35**	**2.10**	**1.89**
132011	17006G	3-conductor power cord w/ hospital grade male (green dot)	.82	UL/CSA	14	10'	Gray	16/3	SJT	**6.95**	**6.25**	**5.59**	**4.95**
115078	17006	3-conductor power cord w/ hospital grade male (green dot)	.84	UL/CSA	14	10'	Black	16/3	SJT	**6.95**	**6.25**	**5.59**	**4.95**
173884	3472WJ698G	3-conductor power cord w/ hospital grade male rt ang (green dot)	.85	UL/CSA	15	9'	Gray	16/3	SJT	**4.95**	**4.05**	**3.36**	**2.80**

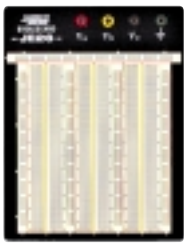
***Thermoplastic Jacket Type:** SPT-1 (Flat): Light duty; SPT-2 (Flat): Junior duty; SVT (Round): Light service; SJT (Round): Junior service*

These long-lasting breadboards feature screen-printed color coordinates suitable for many types of digital and analog prototyping and circuit design. Larger models feature a heavy-duty aluminum backing with binding posts. Use Jameco's AC/DC breadboard power supply, P/N 77681 on page 97.

- Accepts most electronic components, including integrated circuits and transistors for digital and/or analog circuitry • 0.1" hole spacing
- Pins are identified by numbered rows and columns
- Ideal for high frequency and low noise circuits
- One-year warranty * WBU5 and JE series do not interconnect


20757


20773


20790


20811

Attention Educators! Buy jumper wire in bulk and SAVE!
(see Hook-up Wire on page 91)

WBU5 Series Key Features:

- Horizontal assembly corresponds to the operation flow design of the PC boards for handy operation
- Round hole design makes the electric connection better
- Formed with V-shaped cross-sectional groove, which allows DIP IC pins to be inserted across two parts and to increase the rate of utilization due to small pitch
- Dovetail protrusions and recesses designed to connect two adjacent parts tightly together

JE Series Key Features:

- Use to breadboard and debug circuit designs
- Low static, plastic body – CMOS safe
- Nickel-plated clips designed to withstand up to 5,000 insertion cycles
- Breadboard strips connect together to form larger working areas
- Components are easily interconnected using 20-28 AWG wire (P/N 19289 & 20079, below)
- Some models feature heavy-duty aluminum backings (JE24, JE27, WBU504)


20600


94457


20669


20722


136901


77825

Part Number	Product Number*	Terminal Strips	Bus Strips	Contact Points	Binding Posts	Breadboard Size L x W (In.)	Baseplate Size L x W (In.)	Weight (lbs.)	Pricing 1	10	50	100
94457	JE19	0	1	100	0	6.5 x 0.4	—	0.04	$1.95	$1.75	$1.49	$1.25
20600	JE2	1	2	400	0	3.3 x 2.1	—	0.13	4.95	4.49	3.95	3.49
20669	JE22	1	0	630	0	6.5 x 1.4	—	0.20	4.95	4.49	3.95	3.49
194263	JE33	1	1	630	0	6.5 x 1.8	—	0.20	7.95	7.15	6.45	5.75
194280	JE35	1	1	640	0	6.9 x 2.1	—	0.23	8.95	7.95	7.25	6.55
194298	JE37	1	2	640	0	6.9 x 2.4	—	0.25	9.95	8.95	7.95	7.25
20722	JE23	1	2	830	0	6.5 x 4.0	6.5 x 2.1	0.30	8.49	7.49	6.75	5.95
194271	JE34	2	3	1260	3	6.5 x 4.0	8.5 x 4.7	0.73	17.95	16.15	14.55	12.95
20757	JE24	2	1	1,360	2	6.5 x 3.1	8.5 x 4.0	0.60	12.95	11.95	10.95	9.95
20773	JE25	2	4	1,660	3	6.5 x 4.3	8.5 x 5.1	0.80	18.95	16.95	14.95	13.95
194255	JE38	1	2	800	4	2.9 x 5.6	4.9 x 6.3	0.50	16.95	15.25	13.75	12.35
136901	WBU504	2	3	1,600	4	5.5 x 5.5	7.4 x 6.3	0.90	22.95	20.95	18.95	16.49
20790	JE26	3	5	2,390	4	6.9 x 5.8	9.1 x 6.9	1.10	23.95	21.95	19.95	17.95
20811	JE27	4	7	3,220	4	7.3 x 7.5	9.5 x 8.3	1.40	31.95	28.95	26.95	24.95

Part No.	Description	1	10	25
77825	Breadboard pin to breadboard pin test leads (20 pk), 4 each color-coded (red, yellow, blue, black, white), 20 AWG wire, 5.9"L (15cm)	$11.95	$10.95	$9.95

Wire Jumper Kit (350 pcs.)

- 25 each of lengths 0.1" through 5.0" (14 sizes)
- 350 assorted lengths in 13 colors
- Pre-stripped/ preformed 22 AWG solid wire jumpers


19289

19289: 350-piece wire jumper kit

- Handy, durable, clear plastic case

20079: 350-piece refill for 19289

- Case not included

Part No.	Description	1	10	50	100
19289	Wire jumper kit	$10.49	$9.49	$8.49	$7.49
20079	Refill for 19289	8.95	7.95	6.95	6.25

Reinforced Jumper Wires

- 24 AWG-300 volts
- Reinforced pin ends for durability
- 10 pack assortment: 2 yellow, 2 white, 2 red, 2 black, and 2 blue


126341

Part Number	Product Number	Length (mm / inch)	1	10	100
126359	JW50	50 / 1.97	$3.95	$3.49	$2.95
126341	JW100	100 / 3.94	4.09	3.65	3.09
126324	JW200	200 / 7.87	4.25	3.75	3.25

PLCC Prototype Adapters

PLCC socket mounted on a circuit board for easy wire wrap or design prototyping. Solder masked PCB with 0.25" long leads.


73550

- PCB construction
- Silkscreen numbers identify pin numbers in groups of 5 and 10
- Tin-plated PLCC connector
- PLCC socket identifies pin 1 and orientation key
- PLCC socket slotted for PLCC chip remover
- Gold-plated round pins

Part No.	Pins	Size (L x W)	1	10	100
73541	44	2.3" x 1.6"	$10.95	$9.95	$8.95
73550	68	3.4" x 1.6"	15.95	14.49	12.95
73568	84	4.3" x 1.9"	21.95	19.95	17.95

PCI-Bus Extender Card

- PCI Bus
- Extends life of motherboard connectors
- Gold-plated fingers for long life
- Size: 5.9"L x 5.4"W



Part No.	Description	1	10
141381	PCI-bus extender card	$69.95	$59.95

BestProto AT/ISA Prototyping Board

- Can accommodate a PGA package with a 31 x 31mm footprint
- Twenty-one 1206 surface-mount bypass capacitor sites and 142 unconnected sites
- Size: 8.2"L x 4.2"W

Low noise power and ground planes



Includes: Signal definition chart

Part No.	Description	1	10	25
136469	AT/ISA protoboard	$29.95	$26.95	$23.95

PCI Bus Prototype Board

- All plated through holes
- 0.1" hole spacing
- 50 Mil power and ground grids
- Provision for wire wrap and bypass caps
- Impedance matched to bus specifications
- Easy access to every signal on the bus
- Size: 12.4"L x 5.0"W
- Weight: 0.6 lbs.



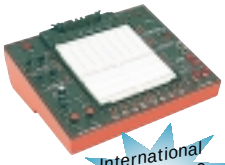
Part No.	Description	1	10
141372	PCI prototype bus board	$69.95	$59.95

Over 6,000 Products Stocked Including...

- Integrated Circuits
- Interconnect Devices
- Electronic Components
- Power Products
- Opto Electronics
- Wiring Accessories
- Electromechanical Devices
- Computer Products

Digital-Analog Lab

Solderless Breadboard
2712 interconnected nickel-plated tie points, fitting all DIP sizes and all components with AWG #22-30 (0.3-0.8mm) solid leads



DC Power Supplies
Variable DC output:
0 to +15V & 0 to -15V @ 500mA
Fixed DC output: +5VDC, 1A;
-5VDC, 300mA
Input power: 120/220VAC @ 50/60Hz (**switchable**)

Function Generator
Frequency ranges: 1Hz–10Hz, 10Hz–100Hz, 100Hz–1kHz, 1kHz–10kHz, 10kHz–100kHz
Sine wave output: 0–8 Vpp variable
Triangle wave output: 0–6 Vpp variable
Square wave output: 0–8 Vpp variable

Other features:
- 2 variable resistors: VR1=1KΩ, VR2=100kΩ
- 8 data switches • 2.5" dia. 8Ω, 25W speaker
- 2 pulse switches (2 sets of outputs: A, A, B, B)
- 2 banana sockets, 2 BNC jacks
- Two 7-segment LED displays (digit height: 0.3")
- 8 red LEDs with separate input terminals
- One-year warranty
- Size: 12.8"W x 9.8"D x 3.7"H • Weight: 8.5 lbs.

Includes: Power cord and manual

Part No.	Description	1	5	10
136266	Digital-analog lab	**$359.95**	**$324.95**	**$299.95**

Guaranteed Lowest Prices

Value pricing backed by our competitive price matching guarantee. If you ever find our products offered by another retailer for less, provide the printed reference and

we will match it!

JAMECO® ELECTRONICS

Powered Project Board

- Solderless breadboard with 2420 tie points
- DC power supplies: +5V @ 1A; variable power 0 to +15VDC and 0 to -15VDC @ 500mA
- Back panel has ground terminal
- Outputs are short-circuit protected
- Edge plate for non-DIP size components
- Input power: 120/220VAC @ 50/60Hz (**switchable**)
- Replacement fuse: P/N 103907, pg 84
- Power switch with light
- Breadboard size: 7.4"L x 6.8"W
- Box size: 9.8"L x 8.0"W x 2.6"H
- Weight: 6.8 lbs. • One-year warranty



Includes: Power cord

Part No.	Description	1	10	25
136258	Powered breadboard	**$99.95**	**$89.95**	**$79.95**

8/16-Bit Solderless Plug-In Breadboard



- IBM PC/XT and higher compatible
- 62 data I/O lines and a DB25 female connector for interfacing to peripherals
- Twenty four 14-pin IC capacity
- Clearly labeled bus lines • 2,352 contact points
- Size: 13.8"L x 5.0"W • Durable construction
- One-year warranty • Weight: 1.0 lb.

Easy PC/XT/AT Prototyping!

Part No.	Description	1	10	25
81672	8/16-bit breadboard	**$49.95**	**$44.95**	**$39.95**

DC to 50MHz Wideband Prototype Board

Ideal for engineering labs!

This 2nd generation solderless board is ideal for high-speed low-noise analog and mixed signal circuits. Useful for testing of instrumentation, signal conditioning, and data acquisition circuits.



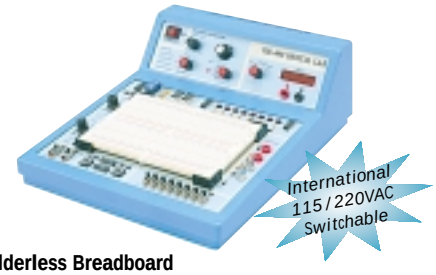
- Low inductance grounding system and power line decoupling circuits for operation over 50MHz
- Four dedicated ground buses and four uncommitted bus lines
- Eight BNCs for signal and power connections
- Side rails for added connectors, power devices and switches
- Working area: 6.5" x 4.3" with 1660 holes (0.1" spacing)
- SOIC/DIP and microprocessor/DIP adapters available • Size: 7.4"L x 5.1"W x 1.5"H
- Weight: 1.2 lbs. • One-year warranty

Includes: Cover

Part No.	Description	1	10	25
132177	Wideband protobrd.	**$59.95**	**$53.95**	**$48.95**

www.jameco.com

Digital Lab



Solderless Breadboard
1580 interconnected nickel-plated tie points, fitting all DIP sizes and all components with AWG #22-30 (0.3-0.8mm) solid leads.

DC Power Supplies
DC pwr. supplies equipped w/ short circuit protection
Variable DC power: 0 to +15V and 0 to -15V
+5VDC power supply: 5V ± 0.25V @ 1A (no load to full load)
-5VDC power supply: -5V ± 0.25V @ 1A (no load to full load)
Two 7-Segment Displays (digit height: 0.3")

Function Generator (5 ranges)
Frequency range: 1Hz–10Hz, 10Hz–100Hz, 100Hz–1kHz, 1kHz–10kHz, 10kHz–100kHz
Sine wave output: 0–8 Vp-p variable
Triangle wave output: 6Vp-p fixed
Square wave output: ±5V fixed

Our most popular digital lab!

Digital Voltmeter (DVM) 4 ranges
3 1/2-digits LED display (digit height: 0.3")
0–199.9mV, 0–1.999V, 0–199.9V, 0–19.99V full scale
- Input AC voltage: 115VAC/220VAC @ 50/60Hz – **switchable**
- Size: 10.6"W x 13.3"D x 5.0"H (back panel)
- Weight: 8.1 lbs. • One-year warranty

Part No.	Description	1	10
75838	Digital lab	**$279.95**	**$249.95**

AC/DC Power Supply for Breadboards

With built-in short-proof regulated power supplies.



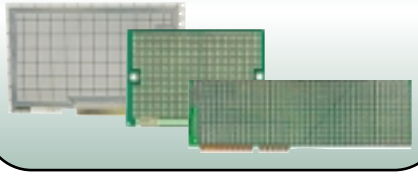
Output Specifications:
+5VDC @ 1A; -5V @ 300mA fixed
0 to +15VDC @ 500mA variable
0 to - 15VDC @ 300mA variable
12-6-0-6-12 tapped VAC, 300mA fixed

- Indicator lamps and power fuses
- Just plug-in and start to use
- Compact and lightweight
- For both digital and analog circuits
- Color: beige
- Input power: 120/220VAC @ 50/60Hz (switchable)
- Compatible w/ test leads P/N 77841, pg 128
- Size: 7.4"W x 5.5"D x 2.6"H
- Weight: 5.5 lbs. • One-year warranty

International 120/220VAC Switchable

Part No.	Description	1	10	25
77681	Power supply	**$119.95**	**$109.95**	**$99.95**

See page 98 for Prototyping Boards and Accessories



Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

General Purpose Prototyping Boards

Select the prototype board that fits your needs from our comprehensive product listing. Prototyping boards with punched holes are convenient, economical tools for assembling circuit components and trying cost-effective alternatives to custom designs.

- 0.062" board thickness
- 0.04" hole diameter
- Plated through pads are double-sided
- All 0.042" diameter hole boards use terminals T44, T49, and T421 (see below)
- See pg 64 for PCB mounting hardware, recommend P/N 106551
- * PCB material: epoxy glass; except P/N 43140 and 37612 are phenolic
- 0.1" hole spacing
- 0.08" pad size

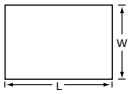

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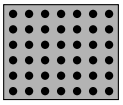

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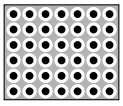

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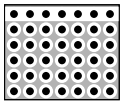
Board Outline

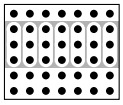


Circuit Patterns


A — Holes Only


B — Pad Per Hole


C — Power/Ground Perimeter Bus with Pad Per Hole

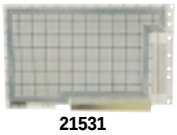

D — 3 Hole Solder Pad and Bus

Part Number	Product Number	Size (W" x L")	Fits Case(s) (see page 64)	Circuit Pattern	Hole Pads	# Holes x Dia.	Power/Ground Busses	Connector I/O or Edge	# Mounting Holes x Dia.	Weight (lbs.)	Pricing 1	10	50	100
105099	2855PCB	1.60 x 2.70	18921	B	single-sided	288 x .035"	none	none	2 x .115"	.02	$5.49	$4.95	$4.49	$3.95
105101	5002PCB	1.50 x 3.50	11957	C	single-sided	365 x .038"	4	none	2 x .140"	.02	6.95	6.25	5.59	4.95
105128	2853PCB	2.00 x 4.40	18913, 11965	C	single-sided	669 x .038"	4	none	4 x .140"	.03	7.95	6.95	6.25	5.59
105110	2300PCB	2.40 x 3.40	11869, 11914	C	single-sided	637 x .038"	4	none	2 x .140"	.03	6.95	6.25	5.59	4.95
28177	PCB1	2.42 x 4.10	18913	C	plated through	674 x .040"	none	none	4 x .120"	.04	5.29	4.79	3.95	3.49
105152	2851PCB	3.10 x 5.50	18892	C	single-sided	1450 x .035"	7	none	4 x .140"	.07	9.95	8.95	7.95	6.95
105136	2320PCB	3.30 x 4.50	11885	C	single-sided	1266 x .035"	4	none	4 x .140"	.06	8.95	7.95	6.95	5.95
105161	2852PCB	3.60 x 7.00	18905, 11973	B	single-sided	2225 x .035"	4	none	4 x .140"	.10	13.95	12.49	11.25	9.95
105144	2743PCB	4.50 x 4.70	11922	C	single-sided	1869 x .035"	6	none	4 x .120"	.09	9.95	8.95	7.95	6.95
21434	JE401(8001)	4.50 x 6.50	18868	B/D	single-sided	2360 x .042"	2	none	none	.12	21.95	19.95	17.95	15.95
21451	JE405(8003)	4.50 x 6.50	18868	C	single-sided	2360 x .042"	1	none	none	.12	19.95	17.95	15.95	13.95
43140*	64P44XXXP	4.50 x 6.50	18868	A	drilled only	2860 x .042"	none	none	none	.09	5.95	5.35	4.75	4.49
52943	84P44WE	4.50 x 8.50	18876	A	drilled only	3740 x .042"	none	none	none	.15	8.95	8.49	7.95	6.49
37604	169P44WE	4.50 x 17.0	N/A	A	drilled only	7524 x .042"	none	none	none	.31	15.49	14.95	14.49	13.95
37612*	169P44XXXP	4.50 x 17.0	N/A	A	drilled only	7524 x .042"	none	none	none	.25	12.95	11.65	10.45	9.45
105179	2505PCB	5.00 x 6.50	11893, 18868, 11949	C	single-sided	2829 x .035"	7	none	8 x .120"	.13	13.95	12.49	11.25	9.95
28193	PCB3	5.00 x 8.00	18876	C	plated through	3705 x .042"	4	mounting area-I/O	4 x .120"	.17	23.95	20.95	19.95	17.95
21477	JE407(8006)	5.00 x 13.25	N/A	B	plated through	6063 x .038"	none	none	8 x .120"	.28	39.95	35.95	32.49	28.95
105187	2507PCB	6.10 x 8.80	18876	C	single-sided	4771 x .035"	7	none	8 x .140"	.21	24.95	22.49	19.95	17.95
37621	169P84WE	8.50 x 17.0	N/A	A	drilled only	14448 x .042"	none	none	none	.53	22.95	20.49	18.49	16.95

Printed Circuit Prototyping Boards

Printed circuit prototyping boards for virtually any application – including those requiring high component densities and solder or wire wrap connections. All boards are manufactured to precision standards and specifications. All bus and circuit patterns are solder-coated for user convenience.

- Edge contacts: gold
- Weight: 0.6 lbs.


21531


28206

Part Number	Product Number	Description	Size (Inches) W x L	Terminal types T44	T49	T421	I/O Connector	Circuit Pattern	Hole Pads	# Holes x Dia.	Power/ Ground Bus	# Mounting Holes x Dia.	Weight (lbs.)	Pricing 1	10	25
21531	JE417	PC/XT 8-bit	4.2 x 6.5	yes	yes	yes	D-sub 9 to 37-pin	C	plated through	2126 x .042"	2	8 x .120"	.12	$22.95	$20.49	$18.49
28206	PCB4	PC/XT/AT 16-bit	4.25 x 13.13	yes	yes	yes	D-sub 9 to 25-pin	C	plated through	4890 x .042"	2	4 x .120"	.23	26.95	24.25	21.85

• See page 64 for circuit board mounting hardware • See page 60 for aluminum round and hex spacers & standoffs

Wire Wrap and Push-In Terminals

For .042" Diameter Holes

Specifications:

- Material: copper alloy
- Prebagged 100 pcs.

34147: Push-In Micro-Klip Terminals

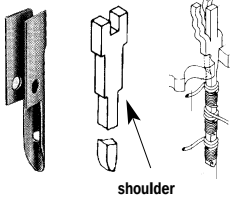
- Overall length: .36"
- Post size: .032" x .045"

34155: Miniwrap Wiring Terminals • Shoulder: .045"

- Two-prong with square tail for wire wrapping
- Overall length: .69"
- Post size: .025"Sq.

34163: Klipwrap Wiring Terminals • Shoulder: .045"

- Three-prong with square tail for wire wrapping
- Overall length: .83"
- Post size: .025"Sq.



34147 34155 34163

Part Number	Product Number	Height Above .062" Board	Length Below .062" Board	Weight (lbs.)	100 pc. units 1	10
34147	T421	.200	.097	.01	$5.95	$5.35
34155	T44	.065	.530	.02	5.95	5.35
34163	T49	.200	.530	.01	11.95	10.79

Copper-Plated Blank Circuit Boards

Ideal for hobbyists and students doing prototypes of circuits. Copper plating on board for either single-sided or double-sided boards.

- 1.6mm thickness


Fig. 1 / Fig. 2 / Fig. 3

Part No.	Product No.	Size (L" x W")	Fig.	Wt. (lbs.)	1	10	50
Single Side							
169279	PCBS3X6	3.0 x 6.0	3	0.1	$2.95	$2.49	$1.95
169287	PCBS6X6	6.0 x 6.0	2	0.2	4.95	4.49	3.95
169295	PCBS12X12	12.0 x 12.0	1	0.5	12.95	11.49	9.95
Double Side							
169308	PCBD3X6	3.0 x 6.0	3	0.1	4.95	4.45	3.95
169316	PCBD6X6	6.0 x 6.0	2	0.2	7.95	7.15	6.45
169324	PCBD12X12	12.0 x 12.0	1	0.7	17.95	15.95	14.49

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Call for OEM Pricing

Order On-Line www.jameco.com

99.7% Stock Availability!

CircuitMaker 2000

Schematic Design, Simulation and Analysis, PCB Layout



CircuitMaker 2000 is your virtual electronics lab. Exceptional ease of use and tight integration means spending less time in learning the software and more time in designing. Key features are:

- **Professional Schematic Design capabilities**: including print-out of borders, customizable title box and barred pin names
- Symbol editor for creating custom symbols
- Improved snap grid with device nudging
- **Simulation and Analysis**: direct from schematic design environment
- Fast accurate SPICE3f5/XSPICE based simulation for analog, digital, and mixed signal circuits
- Complete array of analysis types including AC/DC Transient, Parameter Sweep, Fourier with professional edition including Monte Carlo, Temperature Sweep, Impedance Plots and more
- Virtual instruments for testing and analysis, including a digital oscilloscope, multimeters, bode plotter, curve tracer and more
- Extensive library with thousands of devices including 74xxx, 4xxx, passive and active analog devices, I/O devices and more
- Import SPICE models for creating analog devices
- Output PCB netlists in Protel, Tango, PADS, OrCAD, TraxMaker
- **PCB Layout**: offers huge library of component footprints
- Built-in Auto Router • Point-to point measurement tool
- Fully configurable and resizable copper pour
- Full support for through hole and surface mount components
- Output Gerber files and Excellon N/C drill files
- Input netlists in CircuitMaker, Protel, Tango, OrCAD, PADS, and other formats
- Maximum resolution of .001" (1mm) • Maximum board size: 32" x 32"

System requirements: MS Windows® 95/98/NT/2000; PC with Pentium® class processor, 32MB of RAM, 40MB of hard disk space, CD-ROM drive, mouse or compatible pointing device and 256-color minimum display monitor

Part No.	Description	1	10
191581	CircuitMaker 2000 Simulation Software	$299.95	$269.95

WinDRAFT Schematics Software



"…still one of the most flexible, best featured, and economical schematic capture programs on the market suitable for professional use." — Desktop Engineering

- Supports up to 450 pin designs

System requirements: 486/DX2, 10MB hard drive space, 8MB RAM, SVGA (800 x 600)

Part No.	Description	Wt. (lbs.)	1	10
142981	WinDRAFT Electronic Schematic CAD	1.6	$159.95	$143.95

EDWin 2000 Electronics CAD/CAE Software



A special license available for home users, students, educational establishments and businesses wishing to evaluate the system.

- 500 device library; 100 component database
- Schematic capture: autopackaging and autocheck
- Layout design (28 layers): autoplacement and autocheck
- Optional autorouting
- Mixed-mode simulation: diagram generator
- Postprocessing: Gerber 274D, 274X, NC drill, pick and place

System requirements: 486 or higher compatible, Windows® 9X/NT, min.100MB hard drive space, 16MB of RAM, SVGA color monitor, graphics controller card and mouse; EDWin runs in Windows® 9x/NT and is fully integrated

Part No.	Description	Wt. (lbs.)	1	10
181892	EDWin 2000 Basic	0.79	$299.95	$279.95

Protolab 4.0 Software



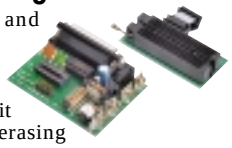
A low-cost circuit design and simulation software designed for Microsoft® Windows® 95. Create and edit analog circuits on your PC while you choose from a list of active and passive components. Includes pre-designed circuits and analysis tool such as...oscilloscope, voltmeter, ammeter, ohmmeter or watt meter.

System requirements: IBM PC 386; 4MB RAM, SVGA graphics, Windows® 3.1 or 95

Includes: 3.5" diskette and basic instructions

Part No.	Description	1	10
150682	Protolab 4.0 Software	$44.95	$39.95

EPIC Pocket PIC Programmer Plus



The pocket-sized EPIC Plus Programmer quickly and easily programs most PICmicro microcontrollers. Basic programmer includes an 18-pin socket for programming 8, 14 and 18-pin PICmicro MCUs. ZIF adapters also available. The optional in-circuit programming adapter allows programming and erasing a PIC device as though it is installed in the target system.

- Simple hardware installation with parallel-port (printer) interface
- Interactive software for Windows® 9x/NT/2000 and DOS
- Command line operation for automated, non-interactive programming

Requires: Two 9V batteries (P/N 151095, pg 83) or AC adapter (P/N 162317, pg 69)

Includes: PICmicro Macro Assembler software

Part No.	Description	1	10
132679	EPIC pocket PIC programmer	$59.95	$53.95
136397	8/18-pin ZIF adapter	34.95	31.95
132610	40/28-pin ZIF adapter	34.95	31.95
154763	In-circuit programming adapter	59.95	53.95

PICBasic Compiler and Pro Compiler



PICBasic converts your BASIC programs into files that can be programmed directly into a PICmicro MCU. Compatible with most PICmicro MCU programmers.

- Use in DOS or Windows® • In-line assembler and call support

132661: PICBasic Compiler: • Serial speeds to 9600 baud • May use up to 2k of code space

132661

150543: PICBasic Pro Compiler: • Automatic page boundary handling past 2k • Direct and library routine access to any pin or register • Built-in LCD support • MPLAB / MPASM / ICE compatability

Part No.	Description	1	10
132661	Compiler: Basic Stamp 1 compatible inst. set	$89.95	$79.95
150543	Pro compiler: Basic Stamp 1 & 2 compatible inst. set	239.95	214.95

LABX1 Experimenter's Module Board



Pre-assembled experimenter's platform that provides an assembled testbed containing most of the circuitry commonly used with MCUs. Also available is the same product unassambled in kit form (P / N 176903).

Includes: 40-pin ZIF socket, 5V regulator, 16 switch keypad, reset button, jumper selectable oscillator from 4MHz to 20MHz, 3 potentiometers, LED bargraph, 2 line x 20 character LCD module, speaker, 2 RC servo connectors, RS232 interface, RS485 interface socket, 12C serial EEPROM socket, SPI serial socket, real time clock/serial analog to digital converter socket, Dallas 1620/1820 temperature IC socket, EPIC in-circuit programming connector and wiring for Microchip in circuit debug connector

Part No.	Description	Size (L" x W")	Wt. (lbs.)	1	10
169113	LAB-X1 Lab Board	5.4 x 5.6	0.69	$199.95	$189.95
176903	LAB-X1K Lab Board Kit	5.4 x 5.6	0.45	139.95	132.95

"PICProto" Prototyping Boards



- High quality blank prototyping boards for PICmicro microcontrollers • Large prototyping area
- Holds microcontroller, 5V regulator, oscillator, capacitors and DB9-25 connector

Includes: Documentation sheet with schematic, suggested parts and placement

Part No.	Description	Size (L" x W")	1	10
132636	PICProto 3	3.0 x 3.0	$14.95	$13.49
	• For 8 pin PIC12C508/509/671/672 • Solder mask			
136400	PICProto 8	2.0 x 1.2	$9.95	$8.95
	• For all 18-pin PICs including PIC16C52, 54, 56, 58, 554, 558, 61, 620, 621, 622, 71, 710, 711, 712, 715, 716, 84, 16CE623, 624, 625, 16F627, 628, 83, and 84			
132644	PICProto 18	3.0 x 1.5	$9.95	$8.95
176891	PICProto 18L	3.6 x 4.1	19.95	17.95
	• For 18-pin PICs including PIC16C84 and 16F84 • Includes wiring for 2 DIP switch banks, resistors and socket to jump to a solderless breadboard			
150535	PICProto S1	2.1 x 1.9	$14.95	$13.49
	• For both 18-pin PICs including PIC16C52, 54, 56, 58, 554, 556, 558, 61, 620, 621, 622, 71, 710, 711, 715, 83, 84 and 28-pin PIC16C55 and 57 • Accepts either standard 0.6"W 28-pin device or 0.3"W skinny DIP			
132628	PICProto Dual 18/28	3.0 x 3.0	$14.95	$13.49
	• For 40-pin PIC16C64, 65, 67, 74 and 77			
132652	PICProto 64	4.0 x 3.0	$16.95	$14.95

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

Industrial Motion Controllers for Brush, Brushless and Stepper Motors by JR Kerr Automation Engineering

All controllers include integrated power amplifiers. Up to 32 controllers can be daisy-chained from a single full-duplex RS485 port. See below for RS232 to RS485 adapter.

184989: PIC-SERVO Motor Control Board
- For brush-type DC motors with 2 or 3 channel incremental encoders
- P.I.D. Servo control, trapezoidal position profiling, velocity mode, 32 bit resolution
- Integrated power amplifier 3 amps continuous, 6 amps peak, 12 to 48VDC supply
- Limit switch inputs, general purpose analog input, PWM, Dir. output for use with external amps

184997: PIC-STEP Motor Control Board
- Integrated indexer and driver for 2 or 4 phase stepper motors
- Full/half step bipolar chopper drive, 2 amps per phase, 7.5 to 46VDC supply
- Trapezoidal position profiling, velocity mode, up to 50,000 steps per second
- Limit switch inputs, general purpose outputs, step/dir outputs for use with external drivers

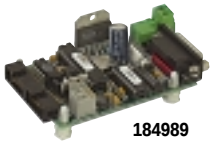
185009: PIC-SERVO 3PH Motor Control Board for Brush or Brushless Motors
- For 3-phase brushless motors (with hall effect sensors) or conventional DC brush-type motors
- High current amplifier: 7 amps continuous, 10 amps peak, 12 to 48VDC supply
- Same features as 184989 above but w/ support for linear & circular interpolation using the PIC-SERVO CMC chipset

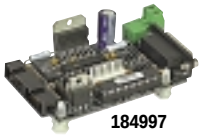
184962: PIC-I/O Multifunction I/O Control Board
- 12 I/O bits software configurable as inputs or outputs
- Three 8-bit analog inputs, two PWM outputs with high current drivers • One counter input

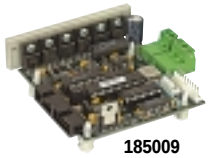
184971: Z232-485 serial port adapter
- Lets you operate the controllers above from any standard RS232 port

184954: Simple Sequencer stand-alone controller
- Programmable master controller for building stand-alone systems with the controllers above
- Plugs into a socket on the Z232-485 board above

KAE


184989


184997


185009

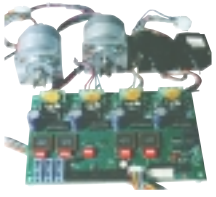

184962


184971


184954

Part No.	Description	Size (L x W x H)	1	10
184989	PIC-SERVO motor control board	3.1" x 2.1" x 0.9"	**$179.95**	**$161.95**
184997	PIC-STEP motor control board	3.1" x 2.1" x 0.9"	**159.95**	**143.95**
185009	PIC-SERVO 3PH motor control board for brush and brushless motors	3.1" x 3.1" x 1.0"	**239.95**	**215.95**
184962	PIC-I/O multifunction I/O control board	3.1" x 2.1" x 0.6"	**99.95**	**89.95**
184971	Z232-485 serial port adapter	3.1" x 2.1" x 0.5"	**59.95**	**53.95**
184954	Simple sequencer stand-alone controller	2.1" x 1.0" x 0.4"	**59.95**	**53.95**

rmv electronics
Multi Stepper Motor Control Board


Shown w/ motors – not included

- Simultaneous/ independent control of up to 16 stepper motors through a single serial port
- High speed serial communication interface 9.6kbps-230.4kbps
- 11 analog channels, A/D converter, 10 or 12 bits resolution
- 24-bit position register, can be read while motor is moving
- Linear acceleration/deceleration capability, up to 8500 step/sec.
- Full step (monophasic and biphasic), half step and external driver modes
- Current mode driver, drives coils up to 2A/45V
- Automatic power down prevents motor overheating
- External driver control outputs: step, direction and power control
- 26 digital I/O and two SPI interfaces for control of external devices
- 32 bits DDL interface for Windows® 9X, NT & Linux
- Internal FIFO RAM (128 bytes) allows customized motion profiles
- Size: 7.7"L x 5.0"W x 1.0"H • Weight: 0.7 lbs.

Part No.	Description	1	10
168727	Stepper motor contrl brd	**$389.95**	**$369.95**

PONTECH
32-Bit Stepper Motor Controller

One Axis



- Controls one bipolar stepper motor with 32-bit absolute position
- Interface to PC through RS232 or RS485 @ 2400-19,200 bps
- Full, half or wave step modes
- Multiple boards may share same serial line (RS485 only) • Addressable up to 255 boards
- 2 channel general purpose 8-bit A/D input port for reading 0 to 5V • 4-bit digital input for home limits
- Size: 4.4"L x 2.3"H • Weight: 0.7 lbs.

Includes: Manual and sample code software

Part No.	Description	1	10
153621	32-bit controller	**$159.95**	**$149.95**

PONTECH
Servo Controller Board



- Controls 1 to 8 servos per board, 8-bit precision
- Interface to PC through RS232 port @ 2400-19,200bps
- 5 channel, 8-bit A/D input port for reading 0 to 5V
- IR-receiver and transmitter feature
- Source/sink: 25mA per pin • 8k EEPROM
- Size: 1.7"L x 1.4"W (main board); 1.1"L x 0.9"W (infrared board)

Includes: Manual, supplement and sample code software

Part No.	Description	1	10
153648	Servo controller board	**$89.95**	**$79.95**

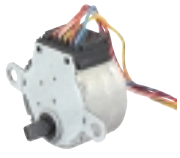
Scott Edwards Electronics, Inc.
Mini SSC II Module (Serial Servo Controller)



- Controls 8 pulse-proportional servos
- Receives serially at 2400 or 9600 baud
- Module is addressable, thus allowing two units to share the same line to control a total of 16 servos
- Connections to serial input can be established using a modular jack (P/N 115553, pg 153) or modular adapter from DE9 to RJ11 (P/N 114737, pg 152)
- Size (PCB): 1.9"L x 1.4"W • One-year warranty

Part No.	Description	1	10
151001	Serial servo controller module	**$49.95**	**$42.95**

GBM
12VDC Unipolar 0.09°/Step Geared Stepper Motor



- Holding torque: 400 g-cm
- Detent torque: 400 g-cm
- Coil resistance: 200Ω
- Current: 60mA
- Ratio: 1/40
- Mounting space: 1.55"
- Shaft size: 0.316"L x 0.197"Dia.
- Mounting hole: 0.16"
- Motor size: 1.18"Dia. x 0.675"H

Part No.	Product No.	1	10	50
173180	30BYJ02AH	**$9.95**	**$8.95**	**$7.95**

star motor
3VDC Miniature Motors


154923

- Reversible • Oil-impregnated bearing • Terminal type: solder tabs
- Voltage range: 1.5 – 3VDC • Shaft diameter: .078"
- Use P/N 161998 for shaft coupler, see page 104

Part Number	Star Motor Number	Current (mA)	Stall Torque (g-cm)	RPM (max.)	Shaft Length (in.)	Size (Dia." x L")	Pricing 1	10	100
154915	ST-130-12240	70	24	5200	0.329	0.778 x 1.078	**$1.09**	**$.89**	**$.55**
154923	ST-130-22770	240	42	16000	0.305	0.779 x 1.140	**.89**	**.79**	**.59**



For Associated Motor Control Books see page 180

Bipolar and Unipolar Stepper Motors

- Excellent for precision control
- Can be operated in forward/reverse mode
- See pages 67-78 for compatible power supplies

SALE


130112 (Fig. 1)


168840 (Fig. 2)


117954 (Fig. 3)


163395 (Fig. 4)


168831 (Fig. 5)


105881 (Fig. 6)


151861 (Fig. 7)


169703 (Fig. 8)


169201 (Fig. 9)

[1] **163395/163408:** Dual shaft
[2] **171601:** Dual shaft w/ 10 tooth
[3] P/N 25216 (IC, MC3479P, pg 9) biphase stepper motor driver can be used to operate P/N 105881 stepper motor
[4] P/N 105881/105873/105890; use P/N 161998 for shaft coupler, see page 104

Part Number	Product Number	Fig.	Step Angle	No. of Phases	Drive System	Volt. (VDC)	Phase Resis. (Ohms)	Curr. (mA)	Phase Inductance (mH)	Detent Torque (g-cm)	Holding Torque (g-cm)	Mounting Hole Space Diagonal (in.)	Mounting Hole (in.)	Shaft Dia. (in.)	Shaft Length (in.)	Motor Dia. (in.)	Motor Height (in.)	Pricing 1	Pricing 10	Pricing 50
130112	23LQC202	1	5.0°	2	Bipolar	1.9	3	750	5	350	280	1.77	0.19	0.250	1.48	2.22	1.65	$1.45	$1.29	$1.16
174668	23LMC32908	1	1.8°	2	Bipolar	2.7	2	2000	3.5	360	4500	2.45	0.13	0.234	0.85	2.23	1.88	3.95	3.49	2.95
168840	5015-838	2	1.8°	2	Bipolar	4.3	3.4	1200	4.6	144	1800	1.74	0.10	0.196	0.64	1.50	1.56	9.95	8.95	7.25
117954	LB82773-M1	3	7.5°	2	Bipolar	5	6.25	800	7	100	1080	2.60	1.95	0.250	0.75	2.25	1.00	2.95	2.49	1.99
163395[1]	5017-935	4	0.9°	2	Bipolar	8.4	30	280	25	36	791	1.73	0.15	0.155	0.29	1.64	1.20	3.25	2.75	2.25
163408[1]	4017-806	4	1.8°	2	Bipolar	9.2	38	240	52	36	664	1.73	0.15	0.155	0.23	1.66	1.25	2.95	2.49	1.95
168831	SM200050HL	5	1.8°	2	Bipolar	12	9.7	1000	18	85	625	1.72	0.10	0.196	1.18	1.50	1.66	8.95	6.95	5.49
105881[3/4]	SM4203	6	3.6°	2	Bipolar	12	25	480	31	80	600	1.73	0.11	0.197	0.43	1.66	1.31	4.95	4.49	3.95
151861	C42M048A04	7	7.5°	4	Unipolar	5	9.1	550	10	90	750	1.94	0.13	0.117	0.40	1.65	0.83	4.49	3.36	2.36
164056	M82101-P1	3	7.5°	3	Unipolar	5	20	255	5.3	8.66	93.8	1.4	0.13	0.078	0.35	1.00	0.46	3.95	3.35	2.36
171601[2]	PF35T48L4	3	3.6°	4	Unipolar	7	20	350	8.56	40	680	1.68	0.14	0.078	0.47	1.38	0.58	2.49	1.95	1.49
105873[4]	SM4202	6	3.6°	4	Unipolar	12	75	150	43	80	504	1.73	0.11	0.197	0.43	1.66	1.32	9.95	8.95	7.95
105890[4]	SM4200	6	3.6°	4	Unipolar	12	75	150	39	80	600	1.73	0.11	0.197	0.43	1.66	1.28	5.95	5.49	4.95
166705	PM42S-096	3	3.8°	4	Unipolar	12	84	140	16	60	450	1.95	0.13	0.117	0.40	1.66	1.64	3.49	2.95	2.25
172232	PF4248E189	3	5.0°	4	Unipolar	12	50	240	36	80	700	1.96	0.13	0.117	0.40	1.66	0.85	2.75	2.49	—
172241	PF4248E188	3	5.5°	4	Unipolar	12	50	240	33	40	750	1.97	0.13	0.117	0.40	1.66	0.85	2.05	1.85	1.65
172259	PF4248E186	3	5.8°	4	Unipolar	12	50	240	38	85	700	1.97	0.13	0.117	0.39	1.65	0.85	3.95	3.49	2.95
169201	STP57D317	9	1.8°	4	Unipolar	24	81	160	68	80	600	2.65	0.18	0.250	0.75	2.20	2.10	5.95	5.49	4.95

NMB Bipolar and Unipolar Stepper Motors

SALE


175775


174588


174570


174553


174561

[#] **174570:**
- With 15 tooth gear and fly wheel (1.12"Dia. x .107"T)

[†] **174561:**
- With 15 tooth gear and detachable bracket w/ 1:1.35 reduction gear

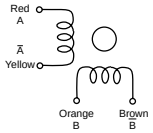
Part Number	Product Number	Step Angle	No. of Phases	Drive System	Voltage (VDC)	Phase Resistance (Ohms)	Current (mA)	Detent Torque (g-cm)	Holding Torque (g-cm)	Mounting Hole Space Diagonal(in.)	Mount Hole (in.)	Shaft Dia. (in.)	Shaft Length (in.)	Motor Dia. (in.)	Motor Height (in.)	Wt. (lbs.)	Pricing 1	Pricing 10	Pricing 50
175775	23LMC32903V	3.6	2	Bipolar	3.6	1.5	2400	400	5000	2.65	0.194	0.250	0.748	2.23	1.74	1.61	$8.95	$7.95	$6.95
174588	23LMK25502	1.8	2	Bipolar	6.5	40	350	500	1000	2.65	0.197	0.250	0.948	2.23	1.64	0.83	4.95	4.49	3.95
174570[#]	PM35L048HPM2	7.5	4	Unipolar	12	100	120	600	1200	1.69	0.123	0.118	0.239	1.38	0.77	0.21	2.79	2.50	2.25
174553	PM55L048NBC7	7.5	4	Unipolar	12	20	600	320	6400	2.58	0.09	0.157	0.340	2.20	0.85	0.58	4.95	4.49	3.95
174561[†]	PM55L048XR04	7.5	4	Unipolar	24	10	2400	960	15000	2.59	0.131	0.157	0.303	2.20	0.85	0.66	6.95	5.49	4.95

GBM Bipolar and Unipolar Stepper Motors

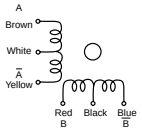
- Bearing type: ball
- Dielectric strength: 500V 50Hz/minute
- 18" lead wires • Step angle: 1.8°
- Ambient temperature: -10°C to +55°C
- Insulation resistance: 100MΩ @ 500VDC
- Use P/N 161998, pg 104, for shaft coupler

[*] dual shaft

Bipolar (Fig. 1)



Unipolar (Fig. 2)




NEMA 17 (155459)


NEMA 22 (162026)

GBM is an ISO-9001 Certified Company

Part Number	Product Number	Fig.	No. of Phases	Drive System	Voltage (VDC)	Phase Resistance (Ohms)	Current (mA)	Phase Inductance (mH)	Detent Torque (g-cm)	Holding Torque (g-cm)	Mounting Hole Space Diagonal (in.)	Mounting Hole (in.)	Shaft Diameter (in.)	Shaft Length (in.)	Motor Diameter (in.)	Motor Height (in.)	Weight (lbs.)	Pricing 1	Pricing 10	Pricing 50
NEMA 17																				
155459[*]	42BYG023	1	2	Bipolar	12	30	400	36	220	2100	1.73	0.1	0.197	0.6	1.7	1.3	0.5	$14.95	$13.49	$10.95
172646	42BYG205	2	4	Unipolar	9.6	75	480	15	<220	2300	1.73	0.1	0.197	0.9	1.7	1.4	0.5	14.95	13.49	11.95
155432	42BYG228	2	4	Unipolar	12	30	400	23	220	2000	1.73	0.1	0.197	0.9	1.7	1.5	0.5	14.95	13.49	11.95
NEMA 22																				
162034	57BYG085	1	2	Bipolar	12	32	380	62	339.66	3598.60	2.63	0.2	0.250	0.8	2.2	1.4	0.8	$15.95	$13.95	—
172531	57BYG061	2	4	Unipolar	2.25	1.0	2250	2	339.66	339.66	2.65	0.2	0.250	1.2	2.3	2.0	1.4	20.95	16.11	13.99
172523	57BYG071	2	4	Unipolar	3.5	1.4	2500	2.0	339.66	3598.60	2.63	0.2	0.250	0.8	2.3	2.8	2.0	29.95	22.95	19.95
162026	57BYG084	2	4	Unipolar	12	20	600	22	724.81	5997.60	2.65	0.2	0.250	1.0	2.2	2.0	1.3	24.95	20.95	18.95

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1.5-24VDC DC Motors

MITSUMI NMB TSUCHIYA MOTOR GBM JOHNSON ELECTRIC

[1] **171598:** • Shaft pulley type with ten-tooth configuration
• Pulley size: .298"W x .38"D
[2] **173681:** • Eccentric gear
[3] **150666/176567:** • Shaft pulley type with 16-tooth configuration


177498

171598

181411

169447

SALE


153656

174991

181112

174692

162579

173673

181964

173681

168436

170051

Part Number	Product Number	Manufacturer	Nominal Voltage	Voltage Range	Current (Amps)	Terminal Type	RPM (max.)	Shaft Dia.	Shaft Length	Size (D" x L")	Weight (lbs.)	Pricing 1	10	100
177498	RC280RA-2485	Mabuchi Motor	4.5VDC	3V-14V	0.150	11"/solder	10300	0.08"	0.43"	0.95 x 1.20	0.10	$1.75	$1.27	$.99
171598[1]	FFO3OPN	Mabuchi Motor	4.7VDC	3V-14V	0.045	2" wires	9800	0.06"	0.23"	0.61 x 0.73	0.03	1.25	.99	.75
181411	HC685G-61810	Johnson Electric	5.0VDC	3V-14V	0.047	.187"/solder	10000	0.13"	0.54"	1.40 x 1.98	0.33	3.95	2.97	2.36
169447	36ZY50SH6530	GBM	7.2VDC	3V-12V	1.100	.11"/fast on	10700	0.13"	0.46"	1.40 x 2.25	0.50	3.49	3.15	—
169439	36ZY50SH7522	GBM	7.2VDC	3.6V-9.6V	1.600	.11"/fast on	14500	0.13"	0.44"	1.40 x 2.25	0.50	3.95	3.49	—
153656	RS550PF	Mabuchi Motor	7.2VDC	4V-10V	1.400	.15"/solder	6500	0.13"	0.66"	1.45 x 2.25	0.49	2.95	2.49	1.95
174991	6424CL09WB20	NMB	10VDC	8V-12V	0.430	8" wires	4100	0.12"	0.64"	1.62 x 0.64	0.20	1.49	1.25	.99
181112	M25N-2	Mitsumi	12VDC	5V-15V	0.018	11"/solder	3000	0.08"	0.26"	0.97 x 1.30	0.11	1.39	1.15	.75
174692	21226-384221	Johnson Electric	12VDC	9V-14V	0.015	.11"/solder	3000	0.08"	0.69"	.97 x 1.19	0.11	.85	.65	.49
162579	TID20E	Operating Tech T&I	12VDC	9V-14V	0.025	.20"/solder	2150	0.12"	0.48"	1.48 x 1.42	0.19	1.49	1.25	.99
173673	HC315MG	Johnson Electric	12VDC	9V-14V	0.670	.11"/solder	4600	0.09"	0.50"	1.14 x 1.37	0.16	1.25	1.09	.65
181964	NF203G12	Johnson Electric	12VDC	9V-14V	0.030	.07"/solder	5000	0.08"	0.57"	0.95 x 1.20	0.10	1.25	.99	.79
173681[2]	HC610F	Johnson Electric	12VDC	9V-14V	0.220	.187"/fast on	6600	0.12"	0.92"	1.40 x 1.80	0.40	1.39	1.15	.99
168436	1911520YSP	Soho	12VDC	9V-14V	0.650	.187"/solder	1860	0.13"	0.52"	1.58 x 2.37	0.67	3.25	2.75	1.95
170051	KC613L	Johnson Electric	13VDC	9V-15V	0.250	.25"/fast on	6200	0.12"	0.75"	1.40 x 2.00	0.50	1.45	1.29	1.15
190035	HC685L	Johnson Electric	15VDC	7.2V-24V	0.350	.187"/solder	7800	0.13"	0.38"	1.47 x 2.25	0.47	1.75	1.49	1.25
150666[3]	HC675LG	Johnson Electric	24VDC	9V-30V	0.390	10.5" wires	4100	0.12"	0.38"	1.47 x 2.25	0.48	.99	.75	.49
176567[3]	HC675LGS	Johnson Electric	24VDC	9V-30V	0.390	10.5" wires	4100	0.13"	0.35"	1.47 x 2.07	0.48	.49	.37	.33


190035

150666
SALE

176567

30-Day Money Back Guarantee Ordering 24/7/365 Same business day shipping until 6:00 p.m. EST

12 and 24 VDC Reversible Gear Head Motors

- Solder-type terminal
- High torque construction
- Oil bearing design for long service life
- Insulation resistance: 10MΩ
- Dielectric strength: 300VDC

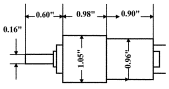
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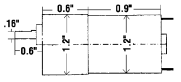
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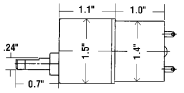
155011

155029
SALE



HN27GD Series

GH30GM Series


GH35GM Series


HN27GD Series

Part Number	Product Number	Rated Voltage	Operating Range (VDC)	No Load Current (mA)	No Load Speed (rpm)	Started Torque (kg-cm)	Motor Size Gear Ratio	Gear Size Dia. x Lgth (in.)	Motor Size Dia. x Lgth (in.)	Shaft Size Dia. x Lgth (in.)	Pricing 1	10	50
167038	GH12-0953Y	12	4.5 – 24	45	14	1.2	188:1	1.0 x 0.9	1.1 x 0.8	.16 x .45	$14.95	$12.95	$10.95
167046	GH12-1828Y	12	4.5 – 24	95	37	1.3	90:1	1.2 x 1.3	1.1 x 0.8	.16 x .45	19.95	16.95	14.95

GH30GM Series

170641	GH12-1828Y-10	12	6.0 – 24	45	10	3.50	332:1	1.1 x 1.1	1.2 x 0.6	.16 x .60	$19.95	$17.95	$15.95
153437	GH12-1045Y	12	3.0 – 12	35	15	0.80	200:1	1.2 x 0.9	1.2 x 0.6	.16 x .60	14.95	13.49	11.95
159417	GH12-1921Y	12	4.5 – 12	150	42	8	132:1	1.2 x 0.9	1.2 x 0.6	.16 x .60	17.95	14.49	12.95
162190	GH12-1324Y225	12	4.5 – 12	65	225	0.70	30:1	1.2 x 0.9	1.2 x 0.6	.16 x .60	14.95	12.49	10.95

GH35GM Series

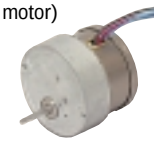
155011	GH12-1926	12	4.5 – 12	55	2	15	3000:1	1.4 x 1.0	1.5 x 1.1	.24 x .70	$19.95	$17.95	$14.95
155820	GH12-1830Y-P	12	4.5 – 12	50	4.5	13	1000:1	1.4 x 1.0	1.5 x 1.1	.24 x .70	19.95	16.49	14.95
155838	GH12-1641T-L	12	3.0 – 12	65	20	10	270:1	1.4 x 1.0	1.5 x 1.1	.24 x .70	19.95	16.49	14.49
152910	GH12-1926Y	12	4.5 – 12	48	44	11.8	100:1	1.4 x 1.0	1.5 x 1.1	.24 x .70	19.95	17.95	15.95
151440	GH12-1632TI	12	4.5 – 12	75	69	11	100:1	1.4 x 1.0	1.5 x 1.1	.24 x .70	19.95	16.49	14.49
155854	GH12-1641T-F	12	3.0 – 12	65	87	7	60:1	1.4 x 1.0	1.5 x 1.1	.24 x .70	19.95	16.49	14.49
155862	GH12-1926Y-F	12	4.5 – 12	60	100	5	60:1	1.4 x 1.0	1.5 x 1.1	.24 x .70	19.95	17.95	14.95
161373	GH12-1345T	12	4.5 – 12	69	150	3	30:1	1.4 x 1.0	1.5 x 1.1	.24 x .70	19.95	16.49	14.49
161381	GH12-1634T	12	4.5 – 12	111	200	3.6	30:1	1.4 x 1.0	1.5 x 1.1	.24 x .70	19.95	17.95	14.95
164785	GH12-1640Y	12	4.5 – 24	45	300	.76	10:1	1.4 x 1.0	1.5 x 1.1	.24 x .70	19.95	17.95	14.95
176049	GH12-1640Y00	24	12 – 24	140	2	6	3000:1	1.3 x 1.0	1.5 x 1.1	.24 x .70	18.95	16.95	15.49
176031	GH24-1640Y06	24	12 – 24	140	65	2	90:1	1.3 x 1.0	1.4 x 0.7	.24 x .70	19.95	17.95	15.95
176014	GH24-1640Y11	24	12 – 24	140	116	1.50	50:1	1.3 x 1.0	1.5 x 0.6	.24 x .70	19.95	16.95	14.95
176022	GH24-1640Y19	24	12 – 24	140	193	1.0	30:1	1.3 x 1.0	1.5 x 0.7	.24 x .70	19.95	16.95	14.95

12VDC Motor (No Gear)

155029	HN12-1641T	12	3.0 – 12	50	5200	0.24	No gear	N/A	1.3 x 0.9	.78 x .34	$3.15	$2.75	$2.49

24V AC/DC Motor With Gearbox

Synchronous / Bipolar Stepper



- 20 rpm (as synchronous motor)
- 0.5 degree step angle (as stepper motor)
- Size: (motor) 1.86"Dia. x 1.0"L
- Size: (gearbox) 2.1"Dia. x 0.7"L

Power requirements:
24VAC@50/60Hz (for synchronous motor operation)/24VDC (for stepper motor operation)

Part No.	Description	1	10
176364	Motor w/ gearbox	$24.95	$21.49

TimeTech 120VAC Gear Motor

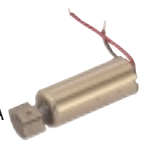
4.8 rpm – 3.5 Watt



- No load current: 25mA
- Operating voltage: 120VAC @ 60Hz
- Terminals: 0.19"
- Screw down tabs for mounting
- Shaft Dia: 0.27" • Shaft length: 0.32"
- Overall size: 2.0"Dia. x 0.8"Thick
- UL approved

Part No.	Product No.	Description	1	10	100
160987	S430	Gear motor	$3.49	$2.95	$2.25

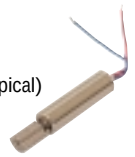
1.3VDC Vibrating Motor



- Typical applications: cellular phones, pagers, and toys
- Rated RPM: 7000rpm @ 1.3VDC
- Stall current: 112mA @ 1.3VDC
- Lead length: 0.7"
- Operating voltage: 1.3VDC @ 62mA
- Operating voltage range: 0.7VDC – 1.6VDC (max.)
- Size: (motor) 0.28"Dia. x 0.67"L
- Size: (shaft) 0.10"Dia. x 0.18"L

Part No.	Description	1	10	100
175062	Vibrating motor	$3.95	$3.49	$2.95

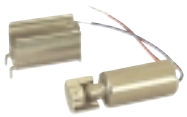
1.3VDC Vibrating Motor



- Typical applications: cellular phones, pagers, and toys
- Rated RPM: 8500 @ 1.3VDC
- Direction of rotation: clockwise
- Operating voltage: 1.3V @ 65mA (typical)
- Lead length: 0.75"
- Size: (motor) 0.16"Dia. x 0.55"L
- Size: (shaft) 0.15"Dia. x 0.23"L

Part No.	Description	1	10	100
175396	Vibrating motor	$5.95	$5.35	$4.79

Namiki 1.3VDC Vibrating Motor



- Typical applications: cellular phones, pagers and toys
- Operating voltage: 1.3VDC @ 80mA
- Rated RPM: 7500 @ 1.3VDC
- Minimum starting voltage: 0.8VDC
- Clock-wise rotation • 1.1" lead wires
- Size: (motor) 0.47"L x 0.24"Dia.
- Size: (shaft) 0.22"L x 0.10"Dia.

Part No.	Description	1	10	100
190078	Vibrating Motor	$5.95	$5.35	$4.79

8VDC Vibrating Motor



- Typical applications: beepers, small toys, cellular phones
- Rated RPM: 4500 or more @ 8VDC
- Direction of rotation: CW / CCW
- Operating voltage: 8VDC @ 45mA
- Operating voltage range: 2.5VDC – 8.8VDC (max.)
- Starting current @ operating voltage: 60mA or less
- Size: 0.55"Dia. x 0.13"Thick

Part No.	Description	1	10	100
185228	Vibrating motor	$2.95	$2.12	$1.56

110VAC Air Pump



- Air flow (liter/min): 8
- Noise level: 27dB
- Input voltage: 110VAC @ 50Hz
- Input wattage: 9 watts
- Normal pressure: 1.42psi
- Closed pressure: 2.6psi
- Size: 5.7"L x 5.0"W x 3.4"H • Weight: 5.6 lbs.

Part No.	Product No.	1	10
177543	DB8L	$59.95	$53.95

Seiko Epson 7.2VDC Unipolar Stepper Motor

7.5˚ / Step



- No. of phases: 4
- Detent torque: 90 g-cm
- Holding torque: 750 g-cm
- Phase inductance: 10mH
- Shaft size: 2.53"L x .08"Dia. • Coil resistance: 30Ω
- Mounting hole space: 1.67" • Current: 550mA
- Mounting hole dia.: 0.100" • Voltage: 7.2VDC
- Motor size: 1.38"Dia. x 0.5"H

Part No.	Product No.	1	10	50
169711	780387	$1.69	$1.49	$1.35

AIRPAX 12V Unipolar Linear Stepper Motor



- Operating voltage: 12VDC
- 325 steps maximum both directions
- 11" lead wires
- Distance travel/step: 0.003"
- Shaft size: contracted .077"Dia. x 0.14"L extended .077"Dia. x 1.09"L
- Motor size: 1.86"Dia. x 0.92"L

Part No.	Product No.	1	10	50
162587	A92218M	$4.75	$4.25	$3.85

Solenoids and Relays

Rayex General Purpose Relay

Rayex LB4H Series



- Mechanical life: 10,000,000 operations
- 4PDP • 14-Pins
- Coil voltage: 24VDC
- Insulation resistance: 1,500MΩ @ 500VDC
- Electrical life: 100,000 operations min. at rated load
- Contact rating: 240VAC/24VDC @ 5A
- P&B cross reference: KHAU17D1124

Part No.	Product No.	1	10	50	100
175601	LB4H-24DS	$3.95	$3.52	$3.17	$2.85

Rayex General Purpose Relay Socket

LB4H Socket

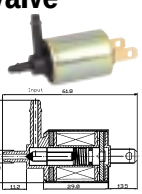


- Din rail snap socket for LB4H relays
- P&B cross reference: PYF14AA

Part No.	Product No.	Pins	1	10	50
175556	PYF14AA	14	$3.95	$3.49	$2.95

See pages 37-49 for Jameco's Electromechanical Products!

12VDC Solenoid Valve



- Operating voltage: 12VDC
- Operational temp: -29˚C to 85˚C
- Current: 350mA
- Air leakage: 1c.c./min. max. 4psi
- 0.250" quick disconnect terminals
- Size: 1.2"L x 0.92"Dia

Part No.	Description	1	10	50
169834	Solenoid valve	$5.95	$5.35	$4.75

Shindengen 24VDC Continuous Tubular Pull Solenoid



- Holding force: 3 lbs.
- Typical coil resistance: 131Ω
- Power: 8 watts
- 2" lead wires
- Size: 3.1"L x 1.0"Dia.

Part No.	Description	1	10	50
128557	24VDC solenoid	$3.95	$3.49	$2.95

Jameco Carries Over 6,000 Quality Products

12VDC Continuous Tubular Push/Pull Solenoids



- 12VDC nominal voltage continuous
- Life expectancy: 2,000,000 cycles
- * Manufactured by Guardian – #A420-067074

Part No.	Type	Coil Res. (±10%)	Power Consum.	Holding Force (lbs. @ 20°C)	Wires (in.)	Size (ins.) (L x Dia.)	Shaft Dia. (in.)	Wt. (lbs.)	Pricing 1	Pricing 10	Pricing 50
145314	Push/pull	89Ω	2.0W	1.12	3.5	1.24 x .73	0.110	0.05	$7.95	$6.95	$6.25
142463	Pull	36Ω	4.0W	0.63	2.0	1.63 x .43	0.150	0.04	4.95	4.49	3.95
163803*	Push	42.8Ω	3.4W	0.75	9.0	2.00 x .60	0.156	0.10	3.95	3.49	2.75
149753	Push	36Ω	4.0W	0.75	7.0	1.90 x .50	0.063	0.05	7.95	6.95	6.25
149761	Push	20.7Ω	7.0W	1.50	7.0	2.50 x .60	0.098	0.10	8.95	7.95	6.95

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

High-Efficiency Robotic Servo

Excellent power-to-weight ratio for robotic projects.



- Supply voltage: 4.8-6 volts
- Torque: 49 oz.-in. (4.8V)
- Speed: 16 seconds to 60˚
- Can be operated by P/Ns 153648, 151001, pg 100 and 157059, see right
- Size: 0.8"W x 1.4"D x 1.6"H

Part No.	Product No.	Description	1	10
157067	14500	Robotic servo	$19.95	$17.95

Micro Robotic Servo

Perfect size for any micro robotic project such as robotic fingers or pincers.



- Power supply voltage: 4.8-6 volts
- Torque: 38 oz.-in.
- Speed: 10 seconds to 60˚
- Can be operated by P/Ns 153648, 151001, pg 100 and 157059, right • Size: 1.2"L x 0.48"W x 1.2"H

Part No.	Description	1	10
166369	Micro robotic servo	$44.95	$39.95

Giant Robotic Ball-Bearing Servo

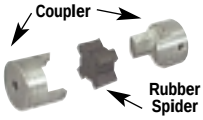
Extremely powerful! Perfect for large robotic projects where power is a must.



- Power supply voltage: 4.8-6 volts
- Torque: 161 oz.-in.
- Speed: 0.19 seconds to 60˚
- Can be operated by P/Ns 153648 & 151001, pg 100 and 157059, see right

Part No.	Description	1	10
166351	Giant robotic servo	$49.95	$44.95

Spider Couplers



- Used with motors
- 1 set screw/hub
- Hub OD: 0.625" Dia.
- Hub length: 0.56"
- Parts sold individually

162288 (Coupler); 162000 (Spider)

Part No.	Description	1	10	100
162288	.125" (3.18 mm) hub	$1.19	$.99	$.65
161998	.197" (5.00 mm) hub	1.09	.89	.59
162270	.250" (6.35 mm) hub	1.19	.99	.65
162000	Rubber spider	.89	.69	.55

Climax Spider Shaft Couplers

106614/106606:
- 1 set screw/hub
- Hub OD: 0.625" Dia.
- Hub length: 0.56"



138288:
- 2 set screws (10-32 x 1/8)
- Size: 0.75"L x 0.5"D

163678:
- 2 set screws (3mm)
- Size: 1.5'L x 0.5'D



SALE

Part No.	Description	1	10	100
106614	.125" spider hub	$.85	$.65	$.39
106606	.250" spider hub	.75	.55	.39
106622	Rubber spider	.59	.45	.35
138288	.250" sleeve coupler	3.95	3.49	2.95
163678	.197" joint shaft coupler	8.95	7.95	—

We provide first class Technical Support to answer all your questions

JAMECO ELECTRONICS

Radio Control System



- 75MHz • 1/4 mile range
- 2-channel proportional operation
- HP-2RNB mini AM receiver
- 2 HS-303 standard servos
- Size: 6.0"L x 5.5"W x 2.0"H
- Weight: 1.5 lbs.

Requires: 12 AA batteries

Part No.	Description	1	10
157059	Radio control system	$84.95	$76.95

Robot Drive Wheels



- Extremely high traction foam rubber compound
- 2 hubs: 1 set screw locking; 1 non-locking
- Size: 2.5"Dia. x 2.0"W

Part No.	Description	1	10
157227	Drive wheels (2 pc set)	$32.95	$26.95

Robot Builder's Bonanza (2001)

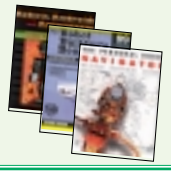


TAB Publishing This fascinating guide offers you a complete, unique collection of tested and proven project modules that you can mix and match to create an almost endless variety of highly intelligent and workable robot creatures. (753 pages)

- Size: 7.3" x 9.2" • Weight: 2.5 lbs.

Part No.	Description	1	10
137171	Robot Builder's Bonanza	$23.95	$21.45

For associated Robotic Books page 178



8-Pitch Gears and Gear Set

- Works with DC motors with 0.08" shaft diameter
- Heavy-duty plastic construction • Pitch: 0.125"
- Bore size: 0.154" • Material: polyethylene resin

#**162392:** 0.15" bore to 0.070" bore

†**131801:** 20 piece Gear Set includes 2 (each) of the following: T10, T20, T30, T40, T50 and (10) bushings



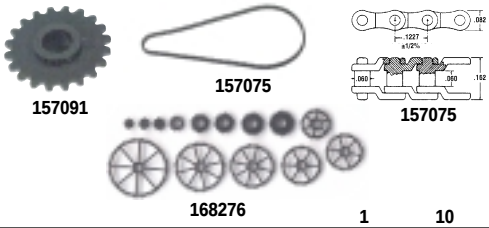
Part No.	Product No.	Description	Shaft Bore	O.D.	Press Fit Shaft Dia.	Gear Dia.	1	10	100
162069	T10	10 teeth	0.151"	0.48"	0.156 (5/32)"	0.457"	$.99	$.89	$.79
162077	T20	20 teeth	0.151"	0.875"	0.156 (5/32)"	0.855"	.99	.89	.79
162085	T30	30 teeth	0.151"	1.27"	0.156 (5/32)"	1.239"	.99	.89	.79
162093	T40	40 teeth	0.151"	1.67"	0.156 (5/32)"	1.634"	.99	.89	.79
162106	T50	50 teeth	0.151"	2.07"	0.156 (5/32)"	2.016"	.99	.89	.79
162392#	BUSH1	Bushing	0.075"	—	0.078 (5/64)"	0.160"	*	.15	.10

Part No.	Product No.	Description	1	10	50
131801†	GA1	Gear set – 20 piece (see description above)	$9.95	$8.95	$7.95

16-Pitch Sprockets, Chain and Sprocket Set

- Operates in high humidity and corrosive environments
- Chain links can easily be added or removed to adjust total length
- Chain tension load: 2.0 lbs.

#**168276:** 14-piece Sprocket Set includes 1 (each) of the following: 8, 9, 10 teeth at ⅛" bore size; 12, 15, 16, 18, 20, 24, 30, 32, 36, 40 and 48 teeth at ¼" bore size



Part No.	Product No.	Description	1	10	25
157091	S204	20 teeth sprocket, 1/4" bore, press fit	$1.95	$1.49	$1.25
157075	C1227	Drive chain (12"L)	9.95	8.95	7.95
168276#	8890	Sprocket set - 14 pieces (see description above)	24.95	20.95	18.95

48-Pitch Gears, Hub and Gear Set

- Low coefficient of friction requires little or no lubrication
- Residual stress removed by annealing process

#**168284:** 12 piece Gear Set includes 1 (each) of the following: 10 teeth at 3/32" bore size; 14 and 16 teeth at ⅛" bore size; 20, 24, 30, 36, 44, 54, 66, 84 and 100 teeth at ¼" bore size

SALE



Part No.	Product No.	Description	1	10	25
157147	GF484	48 teeth, 1/4" bore, press fit gear	$2.95	$2.75	$2.49
157155	GF1004	100 teeth, 1/4" bore, press fit gear	3.95	3.65	3.25
157104	9999	1/4" bore aluminum mounting hub w/ set screws	4.49	3.95	3.49
168284#	8892	Gear set - 12 pieces (see description above)	39.95	34.95	31.95

See page 100 for Kerr Automation Engineering, Inc PIC-Step Motor Control Board



8-Piece Steel File Set

- Strong tool steel

Includes:
1 ea. 0.15"Dia. x 5.65"L,
1 ea. 0.13"Dia. x 5.65"L,
4 ea. 0.22"Dia. x 5.65"L,
1 ea. 0.12"Dia. x 5.65"L
and 1 ea. 0.11"Dia. x 5.65"L



Part No.	Prod.No.	Description	1	10
100360	FS108F	8 piece file set	$9.95	$8.95

Strip-Wrap-Unwrap Tools

- Strips, wraps, unwraps
- Tool tip made of tempered steel
- Use with 30 AWG wire on .025" square posts
- No solder necessary, see pg 90 for wire
- Spring steel cutter • 4.5" long



34577

34585:
- Wrap 1 to 2 turns of insulated portion of wire for secure connections • Modified tool

Part No.	Product No.	1	10	25
34577	WSU30	$26.95	$24.95	$22.49
34585	WSU30M	27.95	24.95	22.95

Magnetizer/Demagnetizer Tool

Perfect for Small Tools

Convenient pocket size tool, housed in strong plastic case. Ideal for general magnetizing and demagnetizing small hand tools. Open slots for magnetizing and demagnetizing function.



- Size: 2.0"L x 2.0"W x 1.0"H

Part No.	Description	1	10	50
175960	Magnetizer tool	$5.49	$4.95	$4.49

1/4 – 1/2 Watt Resistor Lead Forming Tool

- Watt size indicates appropriate package size
- Bends lead length in .05" increments
- Excellent for capacitors also
- 1/4W: 0.4"-1.5"; 1/2W: 0.5"-1.5"; 5.4"L x 1.5"W



106884

Part No.	Product No.	Description	1	10	50
106884	RLF801	1/4-1/2W ..	$2.95	$2.49	$2.25

Deluxe Precision Knife Set

- Three different knife handles – fine work, medium and heavy duty power grip
- Size: 6.3"L x 2.8"W x 1.4"H



Includes: 13 different types of blades

Part No.	Description	1	10	25
72768	13 blade knife set	$8.49	$7.59	$6.85

5" Steel Hemostats

- Grade 410 A.I.S.I. stainless steel
- Three locking positions
- Available with straight or curved tip



115107

Part No.	Product No.	Description	1	10	25
115107	HEMO1	5" straight	$3.95	$3.49	$2.95
115115	HEMO2	5" curved	4.19	3.79	3.39

Electricians Scissors Tool

- Two notches for stripping 19 and 24 AWG
- Stainless steel
- Sharp edge inside blade for cutting
- Serrated edge outside blade for stripping
- Size: 5.2"L



Part No.	Description	1	10	25
175978	Electricians scissors	$8.95	$7.95	$6.95

13-Piece 3/8" Drive Socket Set

With Holder

SALE



- Metric sizes: 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm 18mm, 19mm
- Drop forged • Heat treated • Weight: 1.2 lbs.
- Fully polished and chrome plated

Part No.	Description	1	10	50	100
179910	Metric set	$6.29	$5.65	$5.09	$4.59

Glue Gun and Sticks

- Adheres to PCBs, cardboard, wires and metal
- Silicon nozzle
- Electronic heating
- Trigger action
- Utilizes long glue sticks (100mm)



72696

- Size: 7.3"L x 6.3"W • Weight: 0.8 lbs.

Part No.	Description	1	10	25
72696	Glue gun	$9.95	$8.95	$7.95
78633	Glue sticks (6/pk)	2.95	2.49	1.95
176292	Glue sticks (10/pk)	4.95	3.82	3.16

Metal Dial Calipers

Metric or Inches

- For accurate measurements every time
- Measures outside, inside and depth
- Easy-to-read dial gauge
- Materials: metal
- Length: 6" (150mm)
- Color: silver • Weight: 0.7 lbs.



116134

Includes: Fitted plastic storage case

Part No.	Description (min. reading)	1	10	25
116134	Metric (.02 mm)	$29.95	$26.95	$23.95
116126	Inches (.001 inch) ...	29.95	26.95	23.95

Digital Display Calipers

Metric or Inches

- Hardened stainless steel
- Display: inches to 1/1000THS mm to 1/100THS
- Resolution: 0.01mm (0.0005")
- Instructions for making internal, external, depth and step measurements
- Auto-off after 5 minutes
- Calipers measure to 6 inches/150mm
- Weight: 0.8 lbs. • One-year warranty



Includes: Fitted case and 1.5V silver oxide battery (replacement battery, P/N 140783, pg 83)

Part No.	Description	1	5	10
127482	Digital disp. calipers	$69.95	$62.95	$57.95

Over 6,000 Products Stocked

- → *Integrated Circuits*
- → *Interconnect Devices*
- → *Electronic Components*
- → *Power Products*
- → *Opto Electronics*
- → *Wiring Accessories*
- → *Electromechanical Devices*
- → *Computer Products*

Precision Micrometer

0"–1" Range ± .0001"



Forged steel frame precision micrometer is complete with chrome barrel and thimble for easy-to-read contrasting graduation. Hardened, precision-ground measuring surface with positive spindle lock holds measurements. Accurate to .0001". Quick and easy zero adjustment with spanner wrench.

- Length: 5.4" • Weight: 0.7 lbs.

Part No.	Description	1	10	25
169543	Precision micrometer	$16.95	$15.95	$14.25

1,000,000 Candle Power Spotlight

1-Mile Beam



- Built-in 6V rechargeable battery
- Computer designed parabolic lens
- Provides up to 25 minutes of continuous operation
- Powerful halogen bulb provides brilliant beam across 1 mile • Size: 6.2" diameter housing
- Weight: 4.7 lbs.

Includes: Wall adapter and auto adapter for charging battery

Part No.	Description	1	10	25
173315	Cordless spotlight ..	$29.95	$26.95	$23.95

Black Desk Lamps

- Ventilated metal shade
- Double shade reduces glare
- Lampholder switch
- Max. bulb size 60W (not included)
- Power requirement: 110VAC/60Hz
- Rotating on-off switch

SALE



159951 159960

159951: Lamp
- Base size: 5.5" diameter
- Height: 16.0" • Weight: 2.5 lbs.

159960: W/ organizer (for pens & paper clips)
- Base size: 7.1"H x 4.2"W
- Height: 15.0" • Weight: 2.0 lbs.

Part No.	Description	1	10
159951	Desk lamp	$3.95	$3.49
159960	Lamp w/ organizer	3.95	3.49

AA Flashlight



- Black hard plastic body
- Size: 6.0"L x 0.9" D

SALE

Requires: 2 AA batteries (listed below)

Part No.	Description	1	10	100
159812	GE flashlight	$1.95	$1.49	$.79
151087	AA batteries	.39	.32	.19

Information at Your Fingertips

Log onto our website for specials, technical tips and expanded product information

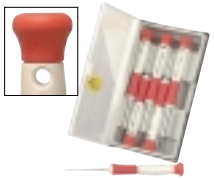
www.jameco.com

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

6-Piece Precision ESD Screwdriver Set

Xcelite

Swivel caps and comfort grip handles provide optimum control.



- Cushion grip
- 4 slotted: 0.1"Dia. x 6.5"L
- 2 Phillips: No. 0 and 00 – 0.1"Dia. x 6.5"L

Part No.	Product No.	1	10
168735	XP600	$22.95	$20.95

6-Piece Electronic Screwdriver Set



- Three slotted: 0.09"Dia. x 6.65"L; 0.12"Dia. x 6.64"L; 0.16"Dia. x 9.61"L
- Three Phillips: No.0, 0.12"Dia. x 6.64"L; No.1, 0.16"Dia. x 9.61"L; No.2, 0.09"Dia. x 6.65"L

Part No.	Description	1	10	25
99451	6-pc. screwdriver set	$6.95	$6.25	$5.59

6-Piece Screwdriver & Pliers Set



- One micro cutting nipper
- One micro flat nose pliers
- Two slotted: 0.12"Dia. x 9.61"L; 0.09"Dia. x 7.64"L
- Two Phillips: No.0, 0.12"Dia. x 9.61"L; No.2, 0.09"Dia. x 7.64"L

Part No.	Description	1	10	25
99565	Screwdriver/plier set	$11.49	$10.49	$9.49

6-Piece Precision Screwdriver Sets



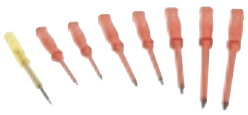
34041 includes: 3/64", 1/16", 5/64", 5/32", 1/8" and 9/64" slotted screwdrivers

34059 includes: 3/64"#0, 1/16"#0, 5/64"#0, 3/32"#0, 1/8"#1 and 9/64"#1 Phillips screwdrivers

34041

Part No.	Description	1	10	50
34041	Slotted screwdriver set	$2.95	$2.49	$2.25
34059	Phillips screwdriver set	2.95	2.49	1.95

8-Piece Electrician Screwdriver Set



- Insulated handle and blade protection – up to 1000V
- Four slotted: 0.24"Dia. x 9.91"L; 0.2"Dia. x 8.92"L; 0.16"Dia. x 7.54"L; 0.1"Dia. x 6.10"L
- One slotted with Buz light: 0.16"Dia. x 7.4"L
- Three Phillips: No. 0, 0.1"Dia. x 6.10"L; No.1, 0.16"Dia. x 7.54"L; No.2, 0.24"Dia. x 9.91"L
- Material: chrome-vanadium
- Weight: 1.2 lbs.

Part No.	Product No.	Description	1	10
99688	SD315B	8-pc. screwdriver set	$9.95	8.95

JAMECO Pocket Screwdriver

Phillips/Flat head



- Pocket screwdriver with Phillips and slotted
- Pen clip for pocket storage • Size: 6"L

Part No.	Description	1	10	100
127271	Pocket screwdriver	$.99	$.79	$.65

Cordless Screwdriver



- Adjustable handle can be used folded or unfolded
- Thumb switch for reverse and forward action
- No load speed: 180rpm
- Clutch operating torque from 4 to 21kg/cm
- 3.6V rechargeable battery
- Size: 10.5"L x 1.5" Dia. • Weight: 1.6 lbs.

Includes: 6VDC @ 300mA power supply and screwdriver bits (slotted and Phillips)

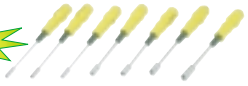
Part No.	Description	1	10
176680	Screwdriver	$39.95	$35.95

7-Piece Hex Driver Tool Set

- Size of drivers: 6.3"L

Includes 1 ea.: 3, 3.5, 4, 4.5, 5, 5.5 and 6mm

SALE



Part No.	Description	1	10
148929	Hex nut driver tool set	$9.85	$8.95

4-Way Master Key Chuck Tool



- Opens a variety of chucks (P/N 172911 opens 86 types); (P/N 172929 opens 127 types)
- Opens most chucks from manufacturers such as Cooper, Milwaukee, Craftsman, Black and Decker, and Rohm

SALE

172911: • Chuck size: 1/4" to 3/8" • Wt.: 0.3 lbs.
172929: • Chuck size: 1/2" to 3/4" • Wt.: 0.6 lbs.

Part No.	Description	1	10	25
172911	Opens 86 chucks	$5.49	$4.87	$4.38
172929	Opens 127 chucks	7.49	6.70	6.03

Pin Vise w/ Reversible Chuck Nose



- Knurled steel swivel handle
- Solid locking chuck nose
- Adjustable nose from .00" to .05" and .05" to .08"
- Length: 3.5"

Part No.	Description	1	10	25
173323	Pin vise	$5.95	$5.35	$4.95

10-Piece Combination Open-End/Box Wrench Set

- Material: alloy steel

Includes 10 wrenches with the following sizes: 5/32, 3/16; 3/16, 5/32; 13/64, 7/32; 7/32, 15/64; 15/64, 1/4; 1/4, 9/32; 9/32, 5/16; 5/16, 11/32; 11/32, 3/8; 3/8, 7/16



Part No.	Product No.	Description	1	10
99602	WS608	10 pc. wrench set	$9.95	$8.95

See pages 110 - 112 for a wide selection of Tool Sets and Kits



10-Piece Hex Key Wrench Sets

72469 includes: 1.5, 2, 2.5, 3, 4, 5, 5.5, 6, 8, and 10mm wrenches

72477 includes: 1/16, 5/64, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4, 5/16 and 3/8" wrenches

SALE



72469

Part No.	Description	Wt. (lbs.)	1	10
72469	Metric hex key set	0.6	$3.49	2.95
72477	SAE hex key set	0.5	3.25	2.75

8-Piece Fold-Up TORX Key Set

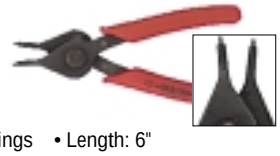


- 3.7" long handle
- TORX bits: T9, T10, T15, T20, T25, T27, T30, T40
- Size: 3.7"L x 1.2"W

Part No.	Description	1	10	100
176006	TORX key set	$9.95	$8.95	$7.95

Retaining Ring Pliers

Internal/External



- Hi-carbon tempered steel
- Black oxide finish
- Vinyl grip
- For 0.47" to 0.98" diameter retaining rings • Length: 6"

Part No.	Description	1	10	25
177551	Retaining ring pliers	$5.95	$4.95	$4.45

Groove Joint Pliers



- Drop forged steel
- Heat treated
- Milled jaws
- Vinyl grips
- Polished head
- Length: 10" • Weight: 0.9 lbs.

SALE

Part No.	Description	1	10	50
177578	Groove pliers	$3.25	$2.95	$2.65

Slip Joint Pliers

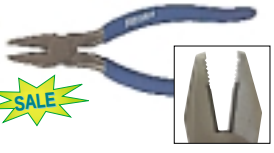


- Drop forged steel
- Heat treated
- Polished head
- Milled jaws
- Vinyl grips
- Length: 8"
- Weight: 0.6 lbs.

SALE

Part No.	Description	1	10	50
177586	Slip pliers	$2.69	$2.45	$2.19

Linesman Pliers



- Drop forged steel
- Heat treated
- Milled jaws
- Vinyl grips
- Polished head
- Length: 8"
- Weight: 0.9 lbs.

SALE

Part No.	Description	1	10	50	100
177594	Linesman pliers	$2.75	$2.49	$2.25	$1.99

Half-Round Long Nose Pliers



- Drop forged steel
- Heat treated
- Spring return action
- Vinyl grips
- Length: 4.5"
- Knurled jaws

Part No.	Description	1	10	50	100
177607	Half-round	$3.95	$3.49	$2.95	$2.49

Diagonal Pliers




- Drop forged steel
- Heat treated
- Vinyl grips
- Spring return action
- Polished head
- Length: 4"

Part No.	Description	1	10	50	100
179901	Diagonal pliers	$3.95	$3.49	$2.95	$2.49

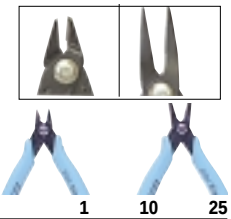
Flat and Half-Round Long Nose Pliers


35473

- Stainless steel • Spring return
- Durable rubber handles
- 5.3" length w/ 1.4" plier nose
- **35473/35490:** Knurl jaws
- **195531:** Smooth jaws

Part No.	Description	1	10	50	100
35473	Flat long nose	$4.95	$4.49	$3.95	$3.49
195531	Flat long nose	3.95	3.49	2.95	2.49
35490	Half round	4.95	4.49	3.95	3.49

Xcelite Shearcutter/Plier Tool Set



- Improved handle grip for control and comfort
- Non-glare black finish carbon steel
- Size (plier): 5.6"L
- Size (shearcutter): 5.2"L

Part No.	Description	1	10	25
152055	Cutter/plier set (S2K)	$14.95	$13.49	$11.95

Xcelite Pliers


146712 146739 146721

- Spring returns

146712: Micro series wire cutter – flush
146739: Diag. wire cutter – semi-flush
146721: Long needle nose – flat

MADE IN THE USA

Part No.	Product No.	1	10	25
146712	170M	$5.95	$5.35	$4.79
146739	MS54V	13.95	12.49	11.25
146721	MN7776V	15.95	14.49	12.95

EZ Lock Pliers


SALE

- Automatic self-sizing locking pliers
- Variable pressure for adjustable gripping force
- Drop forge construction for strength and durability
- Padded handles for comfort
- Length: 10" • Weight: 1.5 lbs.

Part No.	Description	1	10	50	100
179928	EZ lock pliers	$5.95	$5.45	$4.89	$4.39

Value pricing backed by our competitive price matching guarantee. If you ever find our products offered by another retailer for less, provide the printed reference and we will match it!

Precision 5-Piece Stainless Steel Plier Set



- Spring return • Insulated handles

Includes: One 3.5"L micro cutting nippers, one ea. 4"L micro round nose pliers, long nose pliers, flat nose pliers and bent nose pliers

Part No.	Description	Wt. (lbs.)	1	10	25
73120	5-piece set	0.6	$16.95	$14.95	$13.49

Cable Tie Tool

Tightens & Cuts




- All steel construction
- Tightens cable ties up to 2.3mm (.09") thickness
- Separate cutting handle
- Size: 6.3"L x 3.6"W

Part No.	Product No.	1	10	25
159281	HT2081	$6.95	$6.25	$5.59

4.3" Diagonal Wire Cutter



- Cuts component wire up to 1.2mm thick
- Stainless steel
- Durable rubber handles
- Jaws are designed for flush cutting
- 4.3"L x 2.1"W with 0.5" cutting blade

Part No.	Description	1	10	50	100
35481	Wire cutter	$4.95	$4.49	$3.95	$3.49

5" Diagonal Wire Cutter



- Cuts component wire up to 1.2mm thick and 0.08mm fine wire
- Insulated handles
- Jaws are designed for flush cutting
- 5.0"L x 1.8"W with 0.5" cutting blade

Part No.	Product No.	1	10	25
161411	Wire cutter	$6.95	$5.95	$4.49

2-in-1 Wire Stripper and Cutter



- Cutter with safety clip
- Able to strip wire up to 3/4" in length
- Strips 14-26 gauge wires
- Size: 5.2"L x 3.0"W

Part No.	Description	1	10
148911	2-in-1 wire stripper/cutter	$9.95	$8.95

6.6" Wire Cutter/Stripper

24 AWG Stripper



- Strips and cuts wire as small as 24 AWG
- Insulated grips
- Spring loaded for easy use
- Cutter angled @ 45 degrees for use in tight places
- Size: 6.6"L x 3.0"W

Part No.	Product No.	1	10	25
159273	HT1091	$3.95	$3.49	$2.95

5" Wire Cutters/Strippers


78991

- Insulated handles
- Spring return
- Tempered steel cutting edge
- Adjustment for wire gauges
- Size: 5.0"L x 3.0"W
- One-year warranty

183003: for 12-24 AWG wire
78991: for 10-30 AWG wire

Part No.	Product No.	1	10	50
183003	JE107	$2.95	$2.49	$2.25
78991	HT108	2.95	2.49	2.25

Same business day shipping until 6:00 p.m. EST.
See Zone Chart on page 182



Rotary Coax Cable Strippers

2 and 3 Blade


159118

159118 (3 Blade):
Two settings RG58/59/62

- For cable sizes 4-10mm
- Size: 4.2"L x 1.3"W
- Color: black


159185

159185 (2 Blade):
Four settings
RG58/59/62/174

- For cable sizes 4-12mm
- Size: 3.9"L x 0.7"W
- Color: gray

Includes: Hex key wrench for adjusting blade

Part No.	Product No.	1	10	25
159118	HT312B (3 blade)	$9.95	$8.95	$7.95
159185	HT332D (2 blade)	10.95	9.95	8.95

Universal Stripper

Strips Round and Irregular Shaped Cable


SALE

- Strips 18-22 AWG wires
- For STP/UTP, computer cable, SPT-1/SPT-2, flat wire, 2P/4P/6P/8P
- Size: 4.5"L x 2.0"W

Part No.	Product No.	1	10	25
159169	HT501	$4.85	$4.33	$3.90

Automatic Wire Stripper



- Automatic wire stripper
- Strips 8-22 AWG wires
- Spring load grip
- Size: 7.0"L x 2.5"W
- Weight: 0.8 lbs.

Includes: Wire stopper for desired strip length

Part No.	Description	1	10	25
175097	Auto wire stripper	$14.95	$13.49	$11.95

Wire Stripper

22-30 AWG



- Wire stripper, cutter, steel wire cutter, and wire loop
- Scale: AWG and mm
- Strips and cuts wires from 20-30 AWG
- Size: 6.6"L x 2.0"W

Part No.	Product No.	1	10	25
159290	HT5023	$7.95	$6.95	$6.25

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Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

Standard T5 & T6 Wire Strippers

Quality built strippers feature looping holes, built-in wire cutters, cushioned plastic grips and precision knife-type blades for an accurate easy strip every time.



- Size: 6.0"L x 2.0"W

161200: T-5
- 10-18 AWG solid • Color: yellow

161218: T-6
- 16-26 AWG stranded • Color: red

Part No.	Product No.	Description	1	10
161200	ID45-120	T-5 10-18 AWG ..	$13.95	$11.49
161218	ID45-121	T-6 16-26 AWG	13.95	12.95

Premium T5 & T6 Wire Strippers

All the benefit of the standard stripper shown above, plus:

- Contoured cushion-grip handles
- Wire size markings, in AWG and mm
- Size: 6.0"L x 2.0"W



161226: T-5
- 10-18 AWG solid

161234: T-6
- 16-26 AWG stranded

Part No.	Product No.	Description	1	10
161226	ID45-215	T-5 10-18 AWG ..	$15.95	$14.49
161234	ID45-216	T-6 16-26 AWG	15.95	14.49

7-in-1 Hand Tools

- Wire stripper, wire cutter, steel wire cutter, pliers and wire loop
- Scale: mm and inch
- Solderless connector crimper
- Closed lock
- Crimping tool
- Size: 6.6"L x 3.0"W



Part No.	Prod. No.	Description	1	10	25
18796	HT104	10-18AWG	$4.95	$4.49	$3.95
127861	HT1042	16-26AWG ...	4.95	4.49	3.95
127870	HT1043	22-30AWG ...	4.95	4.49	3.95

Crimp/Cut/Strip Tool

For RJ11 (6P) and RJ45 (8P) Modular Plugs

- Repeatable crimp action for consistent high- quality connections
- Push-down locking mechanism
- Size: 8.0"L x 2.0"W • Weight: 0.8 lbs.



Includes: Cut and strip blade

Part No.	Product No.	Description	1	10
174684	TTK071	Crimp tool	$29.95	$26.95

Telemaster Modular Crimp/Cut/Strip Tool

For RJ11 (6P) and RJ45 (8P) Modular Plugs

- Repeatable crimp action for consistent high quality connectors
- Size: 6.0"L x 2.0"W
- Weight 0.8 lbs.

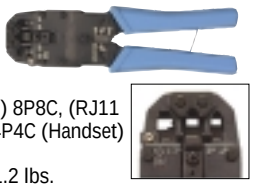


Includes: Cut and strip blade

Part No.	Product No.	Description	1	10
161091	ID30-496	Telemaster tool ..	$41.95	$37.95

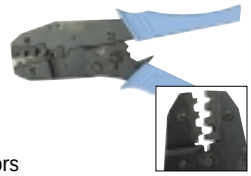
Professional Modular Crimping Tool

- Spring return action
- 6mm and 12mm stripping guide
- Crimp modular plugs without changing dies
- Crimps 10P10C, (RJ45) 8P8C, (RJ11 and RJ12) 6P6C, and 4P4C (Handset)
- Insulated handles
- Size: 8.2"L • Weight: 1.2 lbs.



Part No.	Product No.	1	10	25
181147	HT200	$59.95	$53.95	$48.95

Amphenol® CTL Series Crimp Tools



188630: For RG-55, 58, 59, 62, 140, 141, 142, 210, 223, 303, 400, Plenum 59, 62, Belden 9258, 9259, 9907, and 89907 cables
- For BNC and TNC 3-piece crimp connectors

188648: For RG-6, 174, 179, 187, 188, 316, Plenum 58, and Belden 8281 cables
- For BNC and TNC 3-piece crimp connectors

188656: For RG-8, 11, 55, 58, 141, 142, 149, 213, 214, 223, 225, 303, 393, 400 and Ethernet cables
- For type N 3-piece connectors

Part No.	Product No.	1	5
188630	CTL-1	$59.95	$53.95
188648	CTL-2	59.95	53.95
188656	CTL-3	59.95	53.95

Plastic Modular Crimping Tool

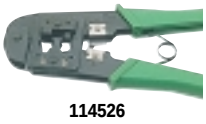
- Crimps 4P, 6P and 8P plugs (4P2C, 4P4C, 6P2C, 6P4C, 6P6C, 8P2C, 8P4C, 8P6C, 8P8C)
- Size: 8.0"L



Part No.	Description	1	10	25
116097	RJ11 crimping tool	$12.95	$10.15	$8.75

Metal Modular Crimping Tools

- Cable stripper and wire cutter • Size: 8.0"L
- Weight: 1.8 lbs.
- **73091:** Crimps 4P and 6P plugs (4P2C, 4P4C, 6P2C, 6P4C, 6P6C)
- **114526:** Crimps 6P and 8P plugs (6P2C, 6P4C, 6P6C, 8P2C, 8P4C, 8P6C, 8P8C)

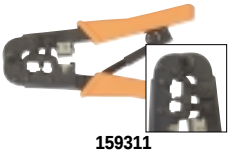


Part No.	Description	1	10	25
73091	RJ11	$19.95	$17.95	$15.95
114526	RJ11/RJ45	19.95	17.95	15.95

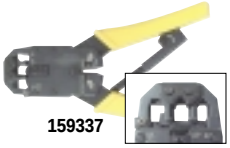
Ratcheted Modular Crimping Tools

- Insulated grip
- Ratcheted type
- Metal

159311:
- 7.5"L
- Crimps RJ45 (8P8C) and RJ11/12 (6P6C)
- Weight: 0.7 lbs.



159337:
- 8.0"L
- Crimps RJ45 (8P8C) and RJ11/12 (6P6C) and handset (4P4C)
- Weight: 1.2 lbs.



Part No.	Prod. No.	Description	1	10	25
159311	HT568R	RJ45/11/12	$24.95	$22.49	$19.95
159337	HT2008R	RJ45/11/12	59.95	53.95	49.95

Ratchet Crimp Tool

For RJ-11 (6P) and RJ45 (8P) Modular Plugs

- Repeatable crimp action for consistent high-quality connections
- Size: 8.5"L x 2.2"W
- Weight: 1.2 lbs.

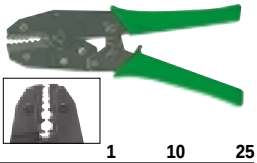


Includes: Cut and strip blade

Part No.	Product No.	Description	1	10
174676	TTK070	Ratchet tool	$34.95	$31.49

Ratcheted BNC Crimping Tool

- Crimps RG58, RG59, RG62, RG174 and fiber optic
- All steel construction
- Size: 8.5"L x 2.5"W
- Weight: 1.1 lbs.



Part No.	Product No.	1	10	25
114534	HT-3019	$19.95	$17.95	$15.95

Terminal Wire Crimping Tool

- Crimps solderless terminals: 18-22 AWG red, 14-16 AWG blue and 10-12 AWG yellow
- Size: 9.0"L x 2.0"W



Part No.	Product No.	1	10	25
72995	HT303	$15.95	$14.49	$12.95

D-Sub Crimping Tool

20-28 AWG

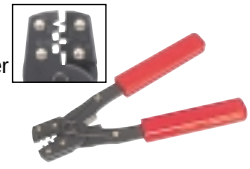
- Crimps D-sub pins and sockets
- For use with P/Ns 43377, 43369, pg 56 and 100765, pg 52
- Size: 7.0"L x 4.0"W



Part No.	Product No.	1	10	25
159265	HT213	$9.95	$8.95	$7.95

Non-Insulated Terminal D-Sub Crimping Tool

14-26 AWG



- Heavy-duty metal crimping tool w/ cutter
- For computer pins and sockets, D-sub 26-28 AWG wire
- For butt-insulated connectors, 22-26 AWG wire
- For telephone spade lugs, 22-26 AWG wire
- For non-insulated connectors, 20-22 AWG wire
- For non-insulated connectors, 14-18 AWG wire
- Red insulated handles • Coiled spring return
- Size: 7.3"L x 1.5"W

Part No.	Product No.	1	10	25	100
99442	HT202A	$8.49	$7.49	$6.95	$6.29

Telemaster Ratchet Modular Crimp Tool

For RJ11 (6P) and RJ45 (8P) Modular Plugs

- Repeatable crimp action for consistent high-quality connections
- Size: 6.0"L x 2.0"W
- Weight: 1.2 lbs.



Includes: Cut and strip blade

Part No.	Product No.	Description	1	10
161103	ID30-696	Ratchet tool	$49.95	$45.95

BNC Hex Crimping Tool

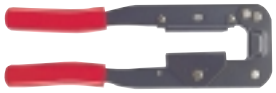
RG58/59/62/142



- Crimps BNC connectors to RG58/59/62/142
- Crimps center pin
- Adjustable grip opening
- Insulated grip handles
- Size: 9.0"L x 2.0"W
- Weight: 1.5 lbs.

Part No.	Product No.	1	10	25
159302	HT106D	$14.95	$13.49	$11.95

IDC Connector Crimping Tool



- Crimping distance: 27.5mm to 6mm (with attachment)
- Cushioned red handles
- Crimp insulation displacement connectors
- Use for IDC socket connectors, pg 53
- Size: 9.2"L x 3.0"W • Weight: 1.1 lbs.

Part No.	Product No.	1	10	25
73251	HT214	$11.95	$10.95	$9.95

RG58U/59U Coax Tool Set



- Heavy duty 9" crimping tool
- Heavy duty 6.5" cutter
- Coaxial cable stripper
- Weight: 2.3 lbs.

Includes: Sturdy locking case

Part No.	Product No.	Description	1	10	25
148849	HT3010	3 pieces	$39.95	$35.95	$31.95

Crimping Tool Kit with Stripper

For RJ11 (4 & 6 position) & RJ45 (8 position)



- Spring loaded modular crimping tool for RJ11 and RJ45
- Wire stripper for solid and stranded Cat. 5 wires
- 15 each of RJ11 (4 & 6 position) stranded modular plugs
- 15 each RJ45 (8 position) solid modular plugs
- 15 pieces (3 piece each of black, white, gray, red, blue) rubber boots for modular plugs
- Size (case): 11.0"L x 7.8"W x 2.5"H
- Weight: 2.2 lbs.

Includes: Black plastic case

Part No.	Product No.	Description	1	10
175484	TTK220	Crimping tool kit	$49.95	$39.95

Modular Crimping Tool Set



- 8" metal modular crimping tool
- Cuts, strips and crimps
- Crimps 4P, 6P and 8P plugs
- Carrying case: blue hard plastic, 8.0"L x 10.5"W x 2.0"H
- Weight: 2.1 lbs.

Includes: 90 modular plugs, 40 pcs. 4P4C (616), 30 pcs. 6P6C (623), 20 pcs. 8P8C (641)

Part No.	Product No.	1	10	25
73496	HT2000B	$79.95	$69.95	$64.95

Coaxial Cable Stripper



- Strips RG58, 59 and 62 cable
- Replaceable blades
- Size: 4.2"L x 0.8"W

Part No.	Description	1	10
73066	3 bladed coax cable stripper	$15.95	$10.95

Automatic Center Punch Tool

Adjustable



- Precision instrument
- Alloy steel point
- Knurled steel body
- Size: 5.0"L x 0.5"Dia.

Part No.	Description	1	10	50	100
160282	Cntr punch tool	$5.95	$5.49	$4.95	$4.49

Impact Punch-Down Tool

With #66 Blade



159134



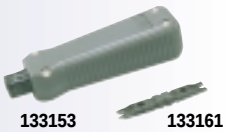
133161

- For seating wire into terminal blocks or to cut off wire end after terminated
- Frame made of polyacepal resin with fiber glass
- Adjustable impact pressure control
- Storage in handle for spare blade
- Compatible with P/N 133161 (#110 blade)
- Size: 6.8"L x 1.2"W x 1.1"H

Note: *not compatible w/ Harris Dracon and Paladin blades*

Part No.	Product No.	1	10	25
159134	HT314	$19.95	$18.95	$17.95
133161	HT14B (#110 blade)	9.95	8.95	7.95

Economy Non-Impact Punch-Down Tool



133153

133161

- Terminates 66-type bifurcated terminals
- Reversible blade – one end terminates and the other terminates and cuts the wire
- Handle made of polyacepal resin and fiberglass
- Handle size: 5.6"L x 1.2"W x 1.1"H

Part No.	Prod. No.	Description	1	10	25
133153	HT334	Tool w/blade	$16.95	$14.95	$13.95
133161	HT14B	#110 blade	9.95	8.95	7.95

Paladin Tools®

Impact Punch-Down Tool

Conforms to AT&T performance specification. Reversible clip-in blade, adjustable spring-loaded impact mechanism and spare storage blade in the handle.



124142

124151

- One-year warranty

124142: For 66-type bifurcated terminals
- Size: 7.0"L x 1.4"W x 1.1"H

124151: Blade for 110-type terminals

Part No.	Description	1	10	25
124142	Tool w/ blade	$54.95	$49.95	$44.95
124151	Punch-down 110 blade	16.95	15.49	13.95

Impact Punch-Down Tool

- Reversible clip-in blade
- Adjustable (HI-LO) spring-loaded impact mechanism
- Storage bin on handle for spare blade



175071

175071: Punch-down tool with blade
- For 66-type terminals
- Size: 5.2"L x 1.5"W x 1.0"H



175089

175089: Punch-down blade
- Blade for 110-type terminals

Part No.	Description	1	10	25
175071	Tool w/ 66 blade	$34.95	$31.49	$27.95
175089	Punch-down blade 110	8.95	7.95	7.25

T-Handle Reamer Tool

Excellent for aluminum chassis work

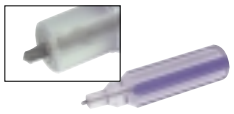


- For enlarging starter holes on panel mount components from 1/8" to 1/2" diameter
- T-handle for easy rotation of tool
- Size: (handle) 3.3"L; (tool) 5.3"L

Part No.	Description	1	10	25
151749	Reamer tool	$8.59	$7.79	$6.95

Metal Deburring Tool

Large Handle



- Enlarges hole up to 2.56mm (0.1") in diameter
- Size: 6"L

Part No.	Product No.	1	10
159193	HT111	$2.59	$2.39

Pocket Swivel Deburring Tool



- Swivel deburring tip rotates to match burred surface with only slight pressure
- Heat treated alloy steel blade
- Pen type for pocket convenience
- Aluminum handle • Size: 5.5"L

Part No.	Description	1	10	25
172902	Deburring tool	$4.95	$4.49	$3.95

Nibbling Tool



18809

- Perfect for cutting, trimming, or notching sheet metal up to 18 AWG
- Time-saver when working on chassis, printed circuit boards and prototype models
- Minimum .375" hole required • Size: 7.8"L

Part No.	Prod. No.	Description	1	10	25
18809	HT204	Nibbling tool	$8.95	$7.95	$6.95
29330	HT204B	Replacement bit	3.95	3.49	2.95

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- → *Wiring Accessories*
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- → *Computer Products*

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www.jameco.com

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

6-Step Drill Tool

3/16" to 1/2"



Drill multiple holes in thin material with the same bit, faster and easier. Each bit does the work of many drill bit sizes. You can drill holes in most materials such as plastic, metal, and wood up to 1/8" thick. No center punching on most sizes. Made of high-speed steel.

- Drill size: 3/16" to 1/2"

Part No.	Description	1	10	25
172401	Step drill	$9.95	$8.95	$7.95

Mini-Drill and Stand

This Mini Drill (26702) is excellent for drilling through circuit boards and protoboards. The drill comes with an array of drilling, grinding and sanding attachments. Drill stand (26711) is designed to function like a drill press.



Shown w/ drill (26702) & stand (26711)

Part No.	Description	Wt. (lbs.)	1	10	25
26702	MS398 drill	0.8	$29.95	$26.95	$23.95
26711	MS399 stand	1.8	19.95	17.95	15.95
159054	6-pc engraving bits set		9.95	8.95	—

9-Piece Assorted Drill Bit Kit



- Variety of sizes: .014" to .126"
- Each kit will vary in contents of bit sizes
- Shank diameter: .125"

Includes: Plastic case

Part No.	Description	1	10	50
131676	9-piece drill bit kit	$9.95	$8.95	$7.95

PC Board Drill Bits



- Reconditioned carbon steel bits
- High quality long lasting cutting edge
- Use for drilling holes in glass PC boards
- Shank diameter: .125"

SALE

Part No.	Drill Dia.	No.	Application	1	10	100
16619	.021"	75	Miscellaneous	$1.49	$1.19	$.75
16580	.040"	59	Plated thru holes	1.75	1.27	.79

Drill Tool Kit

This tool will polish, grind, sand, scrape, buff, cut, crave, drill and mill.



- Drill tool has adjustable knob for speed control from 5000rpm to 20,000rpm
- Spindle in ball bearing
- Lock function for easy bit changing
- Kit size: 10.2"L x 7.2"W x 3.2"H
- Weight: 4.3 lbs.

Includes: 1mm carbide drill, 2.3mm carbide cutter, 1.8mm diamond cutter, spherical shape grinding A, conic shape grinding A, cylindrical shape grinding A/B/C, copper brush, connection rod, saw blade, 3.3t grinding, 0.6t grinding, 2.35mm bit chuck, 3.0mm bit chuck &18VDC @ 1A table top pwr. supply

Part No.	Description	1	10	25
176065	Drill tool kit	$59.95	$53.95	$48.95

Jameco offers Value Pricing!

Engraving Tool with Battery Pack

- Ideal for light engraving work
- Size: 6.5"L (with tip)

Requires: 4 AA batteries or wall transformer (P/N 147707, below)

Includes: Diamond tip capable of engraving any surface



152506

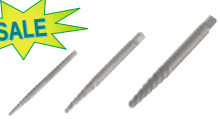
159054

Part No.	Description	1	10
152506	Engraving tool	$15.95	$12.95
151087	AA batteries	.39	.32
147707	6VDC wall transformer	5.95	5.35
159054	Replacement tip (6 pcs.)	9.95	8.95

3-Piece Extractor Tool Set

1/16" to 17/64" Dia.

SALE



- Used for extracting screws and bolts
- Drill appropriate size hole in stub and extractor then turn counterclockwise
- Extractor sizes: #1 (1/16"-1/8"); #2 (3/32"-11/64"); #3 (1/8"-17/64")

Part No.	Description	1	10	25
171192	3 pc. ext. tool set	$2.09	$1.86	$1.67

Vac Tweezers



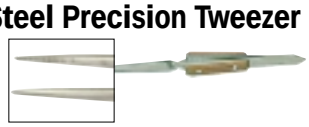
Pick and place small parts of all kinds; glass slides, coins, optics, SMDs, film, etc.

- Size: 2.9"L x 0.6"W
- One-year warranty

Includes: 5 pads sizes 0.14" to 0.4"; 5 straight tips and 2 pieces 45° angle tips

Part No.	Description	1	10
88268	Vacuum pick & place kit	$32.95	$29.65

Stainless Steel Precision Tweezer



- Acid-resistant
- Non-magnetic
- Size: 6" long

Part No.	Description	1	10	50
148831	Straight tweezer	$2.49	$1.95	$1.59

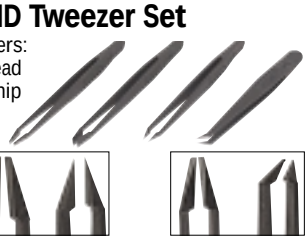
4-Piece Steel Tweezer Set



- 4 styles of stainless steel tweezers, one self-locking
- Ideal for picking up small components in hard-to-reach places

Part No.	Description	1	10	25
10735	4-piece tweezer set	$5.95	$4.95	$3.95

4-Piece Conductive SMD Tweezer Set



- 4 types of tweezers: fine point, flat head for 4mm SMD chip device, flat head for 8mm SMD chip device, sharp angled tip
- Each is 4.5" long

Part No.	Description	1	10	25
172638	4-piece tweezer set	$10.95	$9.85	$8.85

IC Pin Straightener

Straighten bent pins safely and easily with Jameco's IC pin straightener.



- Straightens 8/14/16/18/20/24/28/40/42-pin ICs
- Color/materials: black plastic
- Size: 3.3"L x 1.5"W x 0.4"H

Includes: Ground terminal

Part No.	Description	1	10	100
99362	IC straightener	$5.95	$5.35	$4.95

PLCC Surface Mount and DIP IC Extractors



16766



16838

- Size: 4.0"L x 2.0"W (both)

16838: DIP IC extraction tool
16766: PLCC IC extraction tool

Part No.	Product No.	1	10	100
16838	HT103A	$1.39	$1.19	$1.09
16766	HT103B	4.49	3.95	3.49

BNC Connector Removal Tools



159151

- For deep chassis removal
- Allows access to hard-to-reach places

Part No.	Prod. No.	Size	1	10	25
159151	HT2206	6"L	$9.95	$8.95	$7.95
152047	HT2212	12"L	12.95	11.65	10.45

Trimmer Potentiometer Adjustment Pocket Tool



- Glass filled body
- Stainless steel blade
- Color: black
- Size: 5.2"L

Part No.	Description	1	10	100
153314	Trimmer tool	$1.19	$.99	$.89

4-Piece Alignment Tool Set

- Flat screwdriver function and hex

SALE



Includes: 4 plastic alignment tools with multiple functions

Part No.	Product No.	Description	1	10
99637	ATS606	4 piece tool set	$2.55	$2.26

Crimp Pin Extraction Tools



131887

- Easily extract 0.093" locking pins from connectors
- Heavy duty metal
- Precision design
- Length: 5"

Part No.	Product No.	Description	1	10
131887	HT319C	Male tool for 42729	$8.95	$7.49
131879	HT319B	Female tool for 42649	8.95	7.49

Insertion/Extraction Tool



- Insertion/extraction tool: red/white plastic body; exchangeable tips
- Weight: .01 lbs.

Part No.	Description	1	10	100	1000
19094	Insertion/extraction	$2.95	$2.49	$1.95	$1.49

The products you need... The service you deserve

Heavy Duty 3X Magnifying Lamps



- 45" extension arm
- Supplied with 22 watt Circline tube
- New wire clip design permits easy installation
- Power requirement: 110VAC/60Hz
- 3X magnification • Weight: 7.3 lbs.

Part No.	Description	1	10	25
100829	Black lamp	$62.95	$56.95	$49.95
149981	White lamp	60.95	55.95	49.95

Standard Adjustable 3X Magnifying Lamp



- 4" Diameter lens
- Maneuverable 30" arm extension
- Lamp tilts or turns in any direction
- Uses 60W incandescent bulb (not included)
- 3X magnification
- Power requirement: 110VAC/60Hz
- Weight: 2.9 lbs.

Part No.	Description	1	10	25
22710	Magnifying lamp	$29.95	$26.95	$23.95

3X Magnifier with Adjustable Stand



- Heavy duty steel base
- Size: 15"L (full stand) x 4"Dia. (base)

Part No.	Description	Wt. (lbs.)	1	10
148881	Magnifier	2.5	$11.95	$10.95

General Purpose Illuminated 3X Magnifier



- 3X power • 75mm diameter lens
- Great for magnifying fine print
- Light requires 2 AA batteries, recommend P/N **151087** pg 83 (not included)
- Size: 7.5"L x 3.75"Dia.

Part No.	Description	1	10	25
149542	Illuminated magnifier ..	$4.49	$3.95	$3.49

Motion Detector Switch



- Replaces standard wall switch
- Minimum spout load: 80W/120V
- Maximum spout load: 1000W/120V
- Auto-off switch
- Sensitivity and timer adjustment (5-25 minutes)
- Size: 5.0"L x 5.0"W x 1.4"H • Weight: 0.9 lbs.

Part No.	Description	1	10	50
122892	Motion detector sw..	$10.95	$9.95	$8.95

AC On/Off Timer

Deters theft! Turns lights on and off when you're not home!



- One on/off setting
- Input voltage: 125VAC/60Hz
- 10A contact rating • Color: beige
- Size: 2.6"W x 1.9"D x 3.8"H

Part No.	Description	1	10	50
78553	Timer	$1.95	$1.79	$1.59

Same business day shipping until 6:00 p.m. EST. See page 182 for Zone Chart



"We're here to provide the support you want."



Order 24/7/365 Days a Year

Photon Micro-Light Keychain



163248 163256 163264

- Shines astonishingly bright
- Lights any path
- Micro size (same weight as a quarter)
- Visible for more than a mile • Lifetime warranty

Includes: Lithium battery

Part No.	Description	1	10
163248	Red Micro-Light® keychain	$17.95	$15.95
163256	White Micro-Light® keychain	17.95	15.95
163264	Blue Micro-Light® keychain	17.95	15.95

Professional Tool Case



- Aluminum framed
- Padded interior and adjustable dividers (6 sections)
- Detachable tool organizer for easy access
- Color: black with aluminum trimmings
- Size: 18"L x 13"W x 6"H
- Weight: 8.1 lbs.

Part No.	Description	1	10
149016	Professional tool case	$41.95	$37.95

Clip-On Heat Sink



- Absorbs and dissipates heat during soldering and desoldering sensitive parts
- Size: 2.7"L x 0.7"W

Part No.	Product No.	1	10	25
159126	HT156	$2.25	$2.03	$1.83

Heat Sink and 7-Piece Soldering Aid Kit



100378



100503

100378: Heat sink absorbs and dissipates heat during soldering and desoldering of sensitive parts
100503 kit contains: Soldering wick, 3 piece scraper set, acid brush, clip-on heat sink and empty squirt bottle

Part No.	Description	1	10	50
100378	Heat sink.....	$.69	$.59	$.49
100503	Soldering kit	4.95	4.49	3.95

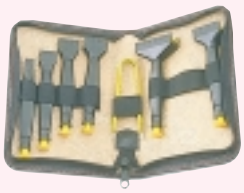
2-Piece Electronic Inspection Set



- Bent mirror tool (0.1"Dia. x 6.8"L) – for visual inspection
- Sharp metal pick (0.1"Dia. x 6.0"L) – great for PCB re-work

Part No.	Description	1	10
72514	Electronic inspection set	$4.25	$3.82

8-Piece IC Insertion and Extraction Tool Kit



- Six IC insertion tools for: 8, 14/16, 18/20, 22, 24/28 and 32/40-pin ICs
- Universal extraction tool with insulated handle
- Black vinyl carrying case with zipper
- Size: 7.8"L x 5.0"W x 1.5"H • Weight: 0.6 lbs.

Part No.	Description	1	10	25
104707	Insert/extraction kit	$18.95	$16.95	$15.25

15-Piece Computer Service Tool Kit



- 8 and 20-pin IC inserters
- IC extractor
- Screwdriver handle with 3.75" extender and adapters: 3 Phillips: #0, #1 #2; 3 slotted: 1/8", 3/16", 1/4"; 2 nut drivers: 3/16", 1/4"; 2 TORX: T-10, T-15
- 2 tweezers: straight, angled
- Probes: logic & voltage ±
- Anti-static wrist strap
- Black vinyl carrying case
- Size: 9.0"L x 5.8"W x 1.3"H • Weight: 1.9 lbs.



Part No.	Description	1	10	25
14171	Computer tool kit ...	$24.49	$22.05	$19.85

20-Piece SAE Computer Tool Kit



- 30W soldering iron
- 6' solder
- 8" wire cutter/stripper
- 5" needle nose pliers
- 6" adjustable wrench
- 3 slotted screwdrivers (1/4", 3/16" and 1/8")
- 3 Phillips screwdrivers (#0, #1 and #2)
- 2 nut drivers (1/4" & 3/16")
- Chip extractor
- Reversible TORX screwdriver (T10/T15)
- Tweezers/pincher • Clamping tweezers
- 3-pronged parts retriever • Spare parts tube
- Flashlight with battery • Heavy duty molded case
- Size: 11.9"L x 9.2"W x 2.0"H • Weight: 3.5 lbs.

Part No.	Description	1	10	100
170966	Computer tool kit ...	$24.95	$22.49	$19.95

26-Piece Computer Service Tool Kit



- 14-16 pin and 24-28 pin IC inserters
- DIP extraction tool
- PLCC surface mount extraction tool
- 3.5 digit digital multimeter with probes
- Adjustable wrench
- Long nose pliers
- Diagonal cutters • Desoldering pump
- Mini heating tool • Heat tool stand
- Rosin core solder • Inspection mirror
- Heavy duty wire stripper/cutter/crimper (for non-insulated terminals)
- Screw driver handle with 4" extender; 2 nut drivers (1/4" and 3/16"); 3 slotted screwdrivers (1/8", 3/16", 1/4"); 3 Phillips screwdrivers (No.0, No.1, No.2); 2 TORX screwdrivers (T-10 and T-15)
- Anti-static wrist strap • Black leather case
- Size: 13.1"L x 9.8"W x 2.5"H • Weight: 4.3 lbs.

Part No.	Description	1	10	25
177463	Computer tool kit ..	$49.95	$44.95	$39.95

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

26-Piece Tool Kit

Excellent Kit for Repair and Maintenance!

- In addition to the tools listed in the matrix below, the kit includes: 2-in-1 carrying case with separate pocket to carry documents
- Size: 16.0"L x 12.0"W x 4.0"H • Weight: 7.0 lbs.



Part No.	Description	1	5	10
135968	26 piece tool kit	$53.75	$48.39	$43.55

55-Piece Tech Tool Kit

An assortment of tools for general and precision work for technicians, engineers, students, etc.



- In addition to the tools listed in the matrix below, the kit includes:
  - – screwdriver handle
  - – 6 piece mini-hammer set
  - – 5 piece of double edge blade
- Carrying case has outer velcro pockets to store paperwork, etc.
- Complete your assortment with a multimeter (see pages EF!-119)
- Size: 17.6"L x 12.8"W x 4.0"H • Weight: 9.2 lbs.

Part No.	Description	1	5	10
136311	55-piece tool kit	$129.95	$116.95	$105.95

51-Piece Machine Tool Kit

Essential Kit for Electronic Machine Maintenance and Repair Jobs!

See matrix below for list of tools. Also includes digital multimeter. Case features removable pallets, a combination lock and a cushioned, black plastic handle.



- Size: 12.5"L x 17.5"W x 3.5"H
- Weight: 10.4 lbs.

Part No.	Description	1	5	10
26681	51-piece tool kit	$102.95	$95.95	$85.95

66-Piece Tech Tool Kit

Kit for Field Technicians and Engineers!

Aluminum case features removable pallets, surface-type locks, a black plastic handle, side buckles and a strap.



- In addition to the tools listed in the matrix below, the kit includes:
  - – mini vacuum cleaner
  - – keyboard/monitor spray cleaner
  - – cassette head cleaning fluid – hobby vice
  - – long nose pliers with cutter – digital multimeter
- Size: 18.0"L x 14.0"W x 6.0"H • Weight: 15.5 lbs.

Part No.	Description	1	5	10
105646	66-piece tool kit	$185.95	$169.95	$159.95

69-Piece Pro Computer Service Tool Kit

- In addition to the tools listed in the matrix below, the kit includes:
  - – 40 pc. socket pack – 3 piece trimmer set – 6" side cutter
  - – carpenter hammer – stainless steel spring hook – 6" long nose plier
  - – 6" slip joint plier – 8" combination plier
  - – 2 removable pallets – solder wick
- Size: 18.5"L x 13.8"W x 6.7"H • Weight: 22.8 lbs.



Part No.	Description	1	5
149024	69-piece professional tool kit	$229.95	$205.95

Quick-Reference of Special Tool Kit Contents

Parts included in kits	135968	26681	136311	105646	149024
3-piece soldering aid kit		1	1	1	1
3-prong holder			1	1	1
5-way crimping tool			7-way	1	1
6 precision screwdrivers		short	1	long	1
7-piece hex key wrench	1	1	1		1
10-foot measuring tape	1	1			1
10-piece mini wrench set				1(SAE)	1
30-watt soldering iron	1	1	1	1	1
Adjustable wrench	1	1	1	1	1
Anti-static strap			1	1	1
8" lineman's pliers			1	1	
Bent needle nose pliers		1	1		1
Brush		1	1	1	1
Carrying case	1	1	1	1	1
Desoldering pump	1	1	1	1	1
Diagonal cutting pliers	1	1	1	1	1
Electrical test screwdriver	1			1	
Electrician's tape		1		1	1
Flat nose pliers	1	1	1	1	1
Forceps					1
Heat sink			1		1
Heavy-duty utility knife	1	1	1	1	
IC extractor	1		1	1	1
Inspection mirror					1
Mini drill				1	1
Mini flashlight			1	1	1
Needle files		2	5	5	5
Needle nose pliers	1	1	1	1	
Precision wire stripper					1
Rosin core solder	1	1	1	1	1
Screwdriver set (*Pro-soft)	6-pc	10-pc	2-pc	13-pc	9-pc*
Snipe nose pliers					1
Soldering stand		1		1	
Stainless steel scissors		1		1	
Tweezers	1	1	2	1	
Utility components box		1		1	1
Total Pieces	26	51	55	66	69

Computer Service Tool Kits

Contained in both kits:

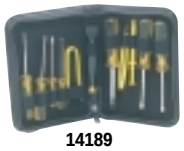
- 2 Slotted screwdrivers: 1/8", 3/16"
- 2 Phillips screwdrivers: #0, #1
- 2 Nut drivers: 3/16", 1/4"
- Tweezers
- 3-claw parts holder
- 14-40 pin IC extractor
- Black vinyl carrying case



167206

167206: 11 Piece Tool Kit

- T-15 TORX screwdriver
- Clear components tube holder
- Size: 8.5"L x 5.9"W x 1.3"H
- Weight: 1.1 lbs.



14189

14189: 12 Piece Tool Kit

- Reversible handle with T10/T15 TORX bit
- 14-16 pin IC inserter/straightener
- Size: 9.0"L x 5.8"W x 1.3"H • Weight: 1.2 lbs.

Part No.	Description	1	10	25
167206	11-piece tool kit	$12.95	$11.49	$9.95
14189	12-piece tool kit	14.95	13.49	11.95

26-Piece SAE Hobby Tool Set



- 4-1/2" long nose pliers
- 4-1/2" diagonal cutting pliers
- Tweezers
- Driver handle
- #1 and #2 Phillips bits
- #1 and #2 pozi bits
- 3/16" and 1/4" slotted bits
- Hex to 1/4" driver adapter
- T-10, T-15, and T-20 TORX bits
- 3" extension bar for 1/4" drive
- 3 slotted and 3 screw driver precision set
- 3/16", 1/4", 11/32" and 3/8" sockets for 1/4" drive
- Compact carrying case • Weight: 1.5 lbs.
- Size: 12.0"L x 9.0"W x 2.0"H

Part No.	Description	1	10	25
170069	26 pc. SAE tool set	$17.95	$15.95	$12.95

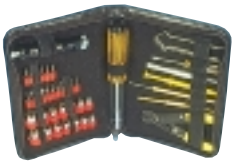
26-Piece Metric Hobby Tool Set



- 6 screwdrivers: Phillips #0, #1, slotted 0.05", 0.08", 0.09", 0.12"
- 10 bits: 5mm, 6mm, #No.1, #No.2, No.1, No.2, T-10, T-15, T-20, socket adapter
- Stainless steel tweezers • Sockets: 5, 6, 8, 10mm
- Extension bar • Handle
- 4" long nose pliers • 4" side cutter
- Plastic carrying case • Weight: 1.2 lbs.
- Size: 6.4"L x 4.1"W x 2.0"H

Part No.	Description	1	10	25
99629	26-piece tool set	$11.95	$10.95	$9.95

40-Piece Tool Kit



- Zipper vinyl case
- Weight: 1.7 lbs.
- Size: 9.5"L x 6.8"W x 1.4"H

Includes: IC inserter with pin straightener, IC extractor, extra long 3-claw parts holder, slotted and Phillips screwdriver bits, 6mm-12mm metric nut driver sockets, 3/16"-1/2" S.A.E. nut driver sockets, T10-T25 reversible TORX screwdriver bits, potentiometer alignment tools, adapter bit for sockets, wire cutters and stripper, and pocket clip screwdriver

Part No.	Description	1	10	25
119183	40-piece tool kit	$19.95	$17.95	$15.95

3M Wrist Strap for Static Protection



- Rubberized wrist strap for comfort
- 1MΩ resistance for static dissipation
- Length: 5'
- Coiled cord with a banana plug and alligator clip
- Zipper-style mechanism adjustable to any size wrist

Part No.	Description	1	10	100
159257	Adjustable strap	$7.95	$6.95	$6.25

3M Anti-Static Field Service Kit



This kit provides all the basic items needed to create a static-safe work environment for field service work. The kit includes a 3M adjustable Wrist Band 2204, ground cords, and a static-dissipative work surface.

Part No.	Description	1	10
159994	8506 Field service kit	$38.95	$34.95

Protective Coiled Wrist Grounding Strap

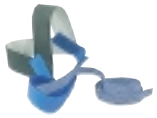


- Comfortable, adjustable Velcro wrist strap
- The coiled cord has banana plug and alligator clips
- Extended cord: 9' long
- Color: black

Includes: 1MΩ resistor for added safety

Part No.	Description	1	10	100
34551	Anti-static strap	$6.95	$5.95	$4.95

Anti-Static Heel Strap



- Discharges static without restricting your mobility
- Ideal for anyone handling static sensitive devices
- Ground strap: 15.5"L

Part No.	Description	1	10	100
100327	Heel strap	$5.95	$5.35	$4.75

Anti-Static Work Mats



Make your work environment safe from static discharge! These mats are made of attractive semi-conductive vinyl that provide adequate discharging, yet will not short leads or pins.

168508

- Color: gray

Includes: Grounding clip

Part No.	Dimensions	Wt. (lbs.)	1	10	100
10575	11.3" x 22"	0.7	$8.95	$7.95	$6.95
10583	19.5" x 23.5"	1.1	11.95	10.49	9.95
168508	24" x 28"	1.8	14.95	13.49	11.95

Anti-Static Touch Pad



- Pad has 1MΩ of resistance
- Coiled ground strap with removable alligator clip, 6'L
- Color: blue
- Size: 15.0"L x 0.5"W

Part No.	Prod. No.	Description	1	10	100
20327	JE1215	Anti-static pad	$4.49	$3.95	$3.59

XSTRONIC Plastic Pump Bottle



- 6 oz. bottle
- ESD compliant
- Plastic bottle with dispenser cover

Part No.	Description	1	10	50
158131	Pump bottle	$9.95	$8.95	$7.95

Conductive Anti-Static Foam and Bags

Don't get zapped!

Protect your investment with these inexpensive bags and ensure a safe work area with our conductive anti-static foam.



13864



78668

- For safe storage of static sensitive devices

13864: 24.0"L x 12.0"W x 0.3"H

✳ **10 piece minimum**

Part No.	Description	1	10	100
13864	Anti-static foam	$7.95	$6.95	$5.95
78668	4 x 6 anti-static bags ..... ✳		.25	.22
78650	8 x 10 anti-static bags ..... ✳		.49	.44

STATICO ESD Common Point Grounding Cord



- 15 ft. long table mat/wrist strap common point grounding cord
- One end provides a 3/8" (10mm) female socket which snaps onto the ESD mat and two wrist strap banana connection receptacles, one for operator and one for guest
- No.10 ring terminal at the other end furnishes the means for ground connection

Part No.	Product No.	Description	1	10
176137	S1030NRF	Grounding cord ..	$11.95	$10.49

STATICO Dual Wrist Strap Grounding Block



- Provides two grounding points for wrist straps
- 15 ft. long green cord for direct path to ground
- Wrist strap cords can be snapped on to the two male snaps provided, while the operator is away from the work bench

Includes: An extra No. 10 ring terminal for alteration

Part No.	Product No.	Description	1	10
176145	S1045	Grounding block	$13.95	$12.49

STATICO ESD Disposable Wrist Grounding Strap



- Convenient for visitors/guests
- Ideal for temporary/ one time use
- One size fits all
- Size: 36"L x 0.25"W

Part No.	Description	1	10	100
181921	Disposable wrist strap.	$1.95	$1.75	$1.49

Clamp Vise



- Lightweight, sturdy construction
- Nylon jaws open 2"
- Ball cup allows vise to adjust to any angle
- No tools needed – finger turn to tighten
- Size: 10.0"L x 2.5"W • Weight: 2.1 lbs.

Part No.	Description	1	10
127167	Clamp vise	$19.95	$17.95

Third Hand



72864

- Frees hands for soldering
- Two adjustable arms with alligator clip jaws
- 2" diameter magnifying lens
- Quick and easy rotation
- Sturdy, heavy base
- Weight: P/N 26690: 0.7 lbs.; P/N 72864: 1.4 lbs.

Part No.	Description	1	10	50
26690	Third hand	$4.95	$4.49	$3.95
72864	W/ soldering holder	6.95	6.25	5.59

Weller® 50 Watt Controlled Output Soldering Station



- 50 watts of controlled power
- Temperature lockout prevents raising of temperature to high levels
- Temperature calibration allows user to reset temperature to match tip styles and sizes
- Quick heat-up and temperature recovery
- Temperature range: 350˚F - 850˚F (177˚C - 454˚C)
- Accuracy within 9˚F (5˚C) • Automatic shut-off
- Size: 5.9"L x 4.5"W x 3.6"H • Weight: 4.2 lbs.

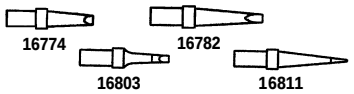
Part No.	Product No.	Description	1	10
166879	WES50	Soldering station	$119.95	$109.95

Weller® Soldering Tips

Replacement Tips for WES50



- Tip leakage: less than 2mV
- Tip to ground resistance: less than 2Ω
- Tips also used with WCC100 station
- Additional tips can be special ordered



Part No.	Prod. No.	Description	1	10
16774	ETA	Screwdriver 1/16"	$6.95	$6.25
16782	ETJ	Long screwdriver 1/32" ..	6.95	6.25
16803	ETR	Narrow screwdriver 1/16"	6.95	6.25
16811	ETS	Long conical 1/64"	6.95	6.25

More Weller Products See Next Page

PANAVISE Vacuum Vise



- Features the patented "split ball" that tilts, turns and rotates through three planes
- Nylon jaws open a full 2.25"
- Powerful suction pad for quick and easy set-up
- Size: 5.0"L x 4.0"W x 6.3"H
- Weight: 3.3 lbs. • One-year warranty

Part No.	Product No.	Description	1	10
27131	M381	Vacuum vise	$59.95	$53.95

PANAVISE Electronic Work Center



- Circuit board holder, standard base, tray base mount, solder station, sponges, and wire holder included
- Size: 8.5"W x 7.8"H
- Weight: 5.3 lbs.
- One-year warranty

Part No.	Description	1	10	25
27060	Electronic center	$79.95	$69.95	$64.95

PANAVISE PVjr. Vice



- Jaw opening: 2.8"
- Jaw size: 1" wide x 2" long
- Jaw heat tolerance: 350˚F
- Vertical/horizontal jaw grooves
- Fine/course adjusting knob
- The vise neck tilts, turns and rotates • Vise height: 6.8"
- Base bolt is 4.3" and fits all PanaVise base mounts
- Weight: 1.4 lbs. • One-year warranty

Part No.	Description	1	10
134439	Jr. vice w/ mountable base	$19.95	$18.95

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

Weller® Light Duty 23 Watt Soldering Iron & Kit



- Ideal for hobby or electronics kit work
- 1/8" removable tip
- 120VAC @ 60Hz
- Additional tips can be special ordered • Length: 8"

191960: Includes lighted soldering iron, MT1 (cone shaped), MT2 (screwdriver), MT3 (chisel) 1/8" tips, lead free solder and soldering aid tool • Wt.: 2.0 lbs.

189384/191978/191986: 2 pack

Part No.	Description	1	10	25
152872	Solder. iron (SP23L)	$14.95	$13.49	$11.95
191960	Iron kit (SP23LK)	16.95	15.25	14.95
189384	1/8" cone tip (MT1)	4.95	4.49	3.95
191978	1/8" scrdrvr tip (MT2)	3.59	3.25	3.09
191986	1/8"chisel tip (MT3)	3.59	3.25	3.09

Weller® 40 Watt Soldering Iron



- 120VAC @ 50/60Hz
- Develops 900˚F / 482˚C of heat
- MT10 1/4" / 10mm diameter replaceable nickel plated copper tip
- Stainless steel barrel • Length: 8.25"
- Heat and impact resistant handle • Weight: 0.25 lbs.

Part No.	Prod. No.	Description	1	10
170561	SP40L	40W solder iron	$16.95	$15.95
188980	MT10	1/4" chisel tip 2 pk	7.49	6.95

Weller® 100 Watt Soldering Iron



- 120VAC @ 60Hz input
- Uses the Weller® "closed loop" method of controlling maximum tip temperature
- Portable line voltage iron – no base station required
- Temperature controlled by the tip
- Nominal heat-up time with 700˚F tip is 110 seconds
- Length: 6"
- Weight: 0.7 lbs.

Includes: CT6F7 (0.375" screwdriver tip; 7000F)

Part No.	Prod. No.	Description	1	10
192081	W100PG	Solder iron	$62.95	$56.95
192090	CT6F7	.375" scrwdrvr tip	9.39	8.49



The Products You Need... The Service You Deserve!

JAMECO® ELECTRONICS

Multifunction Heating Tool Kit



Multifunction hobby tool for soldering, woodburning, leather crafts and stencil cutting; works as a hot knife.

- 120VAC, 25W heating element
- One-year warranty

Includes: Cove type solder tip, fine point solder tip, chisel type solder tip, general purpose craft point, grading craft point, script craft point, dot craft point, hot knife holder blade, solder and stand

Part No.	Description	1	10
129015	Multifunc. heating tool	$12.49	$11.49

Weller® Professional 25 & 35 Watt Soldering Irons



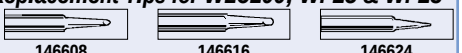
- 120VAC @ 60Hz
- Interchangeable heater elements
- Lightweight handle with cushioned grip
- Quick change knurled collar • Length: 9"

Includes: 3-conductor power cord

Part No.	Product No.	Description	1	10
170587	WP25	25W solder iron	$34.95	$31.95
192102	WP35	35W solder iron	41.75	37.59
192153	PH25	Solder iron stand	16.95	15.25
192111	PH60	Soldering stand	20.49	18.44

Weller® Soldering Tips

Replacement Tips for WLC100, WP25 & WP23



Part No.	Product No.	Description	1	10
146608	ST1	Screwdrvr tip 1/16"	$5.95	$4.95
146616	ST3	Screwdrvr tip 1/8"	5.95	5.35
192129	ST4	Scrwdrvr tip .187"	4.95	4.49
192137	ST5	flat tip .031"	4.95	4.49
192145	ST6	scrwdrvr tip .031"	4.95	4.49
146624	ST7	Conical tip 1/32"	5.95	4.95

Weller® 40 Watt Soldering Station



- 40 watt,120V @ 60Hz
- Lighted on/off switch
- Adjustable power from 5 watts - 40 watts
- Temperature is electronically controlled from 350°F to 850°F
- Size: 5.5"L x 4.5"W x 3.5"H • Weight: 1.9 lbs.

Includes: ST3 1/8" screwdriver tip, soldering station and manual

Part No.	Product No.	Description	1	10
146595	WLC100	Soldering station	$49.95	$44.95

Weller® 42 Watt Controlled Output Soldering Station



- 120VAC @ 60Hz input; 24V output
- Transformer powered soldering station complete with macro style, low voltage, temperature controlled soldering iron
- Closed loop method of controlling maximum tip temperature – for protection of temperature sensitive components • Power unit housing features impact resistant plastic for durability
- Quick disconnect plug for soldering iron and lighted on/off switch
- Separate conductor grounds iron tip and terminates third pin of power cord • Uses PT series tips
- Size: 5.9"L x 4.5"W x 3.6"H • Weight: 4.0 lbs.

Part No.	Product No.	Description	1	10
170552	WTCPT	Solder station	$149.95	$134.95
192161	TC201T	Replac. iron	68.95	62.05
192170	PTA6	.062" screwdriver tip (600˚F)	5.69	5.15
192188	PTA7	.062" screwdriver tip (700˚F)	5.69	5.15
192196	PTA8	.062" screwdriver tip (800˚F)	5.69	5.15

Call your Inside Sales Representative for

OEM Pricing

1 • 800 • 831 • 4242

Weller® 40 Watt Digital Soldering Station



- 120VAC@60Hz input; 24V output
- Microprocessor controller for accuracy and dependability
- Digital LED display allows you to read temperature setting and actual tip temperature – accuracy for most demanding applications
- Temperature accuracy: calibrated to ±9°F; Temperature stability: ±10°F
- ESD safe to protect sensitive components
- Irons fitted with non-burnable silicon rubber cord – prevents cord from being compromised
- Quick disconnect plug for soldering iron and lighted on/off switch
- Size: 5.9"L x 4.5"W x 3.6"H • Weight: 4.5 lbs.

Includes: EC1201A 40W soldering iron

Part No.	Prod. No.	Description	1	10
191994	EC2002M1	Solder Station	$339.95	$305.95

Weller® 40 Watt Analog Soldering Station



- 120VAC @ 60Hz input; 24V output
- Electronically controlled station: temperature accuracy calibrated to ±9˚F; temperature stability to ±10˚F
- ESD safe to protect sensitive components
- Irons fitted with non-burnable silicon rubber cord – prevents cord from being compromised for your protection
- Quick disconnect plug for soldering iron and lighted on/off switch
- Use ET series tips on page 113
- Size: 5.9"L x 4.5"W x 3.6"H • Weight: 4.5 lbs.

Includes: EC1201A 40W soldering iron

Part No.	Prod. No.	Description	1	10
192006	EC10021	Solder station	$249.95	$224.95

Weller® 80 Watt Digital Soldering Station



- 120VAC @ 60Hz input: 24V output
- Immediate heat from the combination of a unique silver heating element and tip configuration – allows faster more efficient soldering
- Temperature range: 150˚ to 850˚F
- Temperature accuracy: calibrated to ±9˚F
- Temperature stability: ±10˚F
- Controlled power allows you to work on high-mass components and boards
- Automatic tool recognition – no need to change settings when using different Weller accessories
- Fast recovery and minimal temperature loss
- Use ET series tips on page 113
- Size: 6.5"L x 4.5"W x 4.0"H • Weight: 7.0 lbs.

Includes: WSP80 soldering iron with 0.094" chisel tip

Part No.	Prod. No.	Description	1	10
192014	WSD80	Solder station	$349.95	$314.95
192065	LTA	.063" chisel tip	5.39	4.85
192073	LTB	.094" chisel tip	5.39	4.85
192049	LTCS	.126" round tip	5.39	4.85
192031	LTH	.031" chisel tip	5.39	4.85
192022	LT1	.01" round tip	5.39	4.85
192057	LTK	.047" chisel tip	5.39	4.85

Weller® Universal 140/100 Watts Soldering Gun Kit

NEW



- 7-piece kit with 8200 model soldering gun
- Weight: 3.3 lbs.

Includes: soldering tip, sealing tip, cutting tip, coil of lead free rosin-core solder and hex wrench

Part No.	Prod. No.	Description	1	10
191951	8200PK	Solder gun kit	$39.95	$35.95

XYTRONIC One-Shot Desoldering Gun



This low maintenance desoldering gun with self-contained vacuum pump is perfect for desoldering through-hole components.

- Power consumption: 60W
- Ergonomic, lightweight design • 120VAC
- Interchangeable standard tips
- Zero static tip, 3 wire grounded
- Sensitive where CMOS protection is needed
- Quick release stainless solder collector
- Electronic temperature control • One-year warranty
- Gun casing size: 7.0"L x 4.0"W • Weight: 2.2 lbs.

Includes: 1.0mm tip

Part No.	Description	1	10	25
129066	Desolder gun	$99.95	$89.95	$79.95
140214	"Y" replacement tip	9.95	8.95	7.95
134594	1.0mm replace. tip	7.95	6.95	5.95
134607	1.2mm replace. tip	7.95	6.95	5.95

Electric and Non-Electric Desolder Pumps

- Easily disassembled for cleaning
- One-hand operation
- Replacement tips available



19254:
- UL listed
- Size: 10.5"L x1.0"Dia.

19254



19166:
- Size: 7.8"L x 0.8"Dia.

19166

Part No.	Description	1	10
19254	Electric desolder pump	$26.95	$23.95
19166	Non-electric desolder pump	4.95	4.49
22091	2 tips for 19166	2.95	2.49
19262	1 tip for 19254	3.95	3.49

Soldering Iron and Stand



102461



36329

- 110-120VAC
- 30 watt
- UL approved
- 1/4" removable tip
- Ideal for precision work
- One-hand operation
- Length: 8.3"

Part No.	Description	1	10	100
102461	30W soldering iron	$3.95	$3.49	$2.95
116020	Replacement tips (2)	1.95	1.49	.99
36329	Soldering stand	3.49	2.95	2.49

CHIPQUIK SMD Removal Kit



- Quick and easy to use
- Uses simple equipment and materials for application and clean-up
- Potential damage to printed circuit boards is eliminated
- 2.5' of CHIPQUIK® material removes 1250-1500 SMD pins

Part No.	Description	1	10
141305	SMD removal kit	$20.95	$18.86

WAHL® Cordless Soldering Irons

The #1 choice for field service soldering!



132775

- 900˚F tip temperature
- Iron performance equivalent to 25 watt iron
- One-year warranty

132775: IsoTip® Quick-Charge Model #7700
- Recharges in 3–4 hours
- Solders continuous up to 20 minutes or 120 joints per charge
- Weight: 1.1 lbs.

132783: IsoTip® Power Pro Model #7904
- Solders 200+ joints or up to 30 minutes of continuous soldering
- Recharges in 3–4 hours
- LED indicator light
- Weight: 1.1 lbs.



132783

Includes: Soldering iron, recharging stand, Ni-Cad battery pack, and tips

Part No.	Description	1	10
132775	Quick-charge cordless iron	$46.95	$42.25
132783	Power Pro cordless iron	69.95	62.95

WAHL® Portable Heat Gun



- Portable and flameless heat
- Temperatures up 1200˚F (650˚C)
- Typical applications: shrink tubing, activate adhesives and potting compounds, form plastics and laminates and preheat flux
- Each cartridge (disposable butane lighter) provides approximately 20 minutes of heat
- Includes disposable gas lighter
- Electronic ignition
- One-year warranty • Size: 4.8"L x 0.9"W

Part No.	Description	1	10
150691	Portable flameless heat gun	$27.95	$24.95

Weller® Multifunction Heating Tool Kit



- Self igniting and instant heat
- Adjustable temperature (25W to 125W)
- Auto switch off
- Visible gas level
- Additional tips can be special ordered
- 2 hours of heat on average tank setting

Includes: soldering tool, hot blower tip, hot knife tip, 2.4mm and 4.8mm double flat tip, cleaning sponge, storage case and instruction manual

Part No.	Prod. No	Description	1	10
152207	PSI-100K	Tool kit	$89.95	$79.95

Solder Stand



Solder not included

- 12 pc. solder stand (some assembly required)
- Size: 3.6"W x 3.9"D x 4.3"H
- Shaft diameter: 0.6"
- Weight: 1.6 lbs.

Part No.	Description	1	10	100
141760	Solder stand	$8.95	$7.95	$6.95

Solder Spool and Iron Stand



Solder not included

- 4 pc. stand (some assembly required)
- Shaft diameter: 0.6"
- Size: 6"L x 3.5"W x 3.1"H
- Sponge size: 1.6"W x 2.4"L
- Weight: 2.0 lbs.

Part No.	Description	1	10	100
169551	Spool and iron stand	$12.95	$11.95	$10.95

Heat Gun



- Use with heat shrink material
- Works with spot-dry paint, plaster, spackle cure adhesives
- Will remove adhesive-applied tiles and linoleum without chipping
- Dual heat setting: 600°F/1100°F
- Thaw pipes, frozen locks and loosen rusted bolts
- UL listed • Weight: 1.8 lbs. • Size: 9.3"L x 7.0"W

Part No.	Description	1	10	25
76865	Heat gun	$39.95	$35.95	$31.95

Weller® 250 Watt Industrial Heat Gun

NEW



- 120VAC @ 60Hz
- ESD safe
- Designed for assembly and repair applications such as shrink tubing and vinyl, epoxy curing/drying/cooling
- Long-life heater and fan components
- Approximately 750°F to 800°F hot air at nozzle; 3-position switch – hot-off-cool
- 3-wire grounded plug; 6' cord • Weight: 1.2 lbs.

Part No.	Prod. No.	Description	1	10
191943	6966C	Heat gun	$126.95	$114.25

XYTRONIC Fume Extractors and Filters

Absorbs noxious lead fumes using activated-carbon filter and a high efficiency fan



168268



120150

- Operate continuously providing filtered air
- Air flow: 115 CFM
- Compact size allows use on work bench with minimum space
- 120VAC, 60Hz, 22 watt
- On/off power switch
- Aerodynamic hood design for effective removal of solder fumes
- Noise: 49dB fan
- Fuse protected
- Static ground jack
- Removable carbon-impregnated filter
- One-year warranty

168268: • High carbon plastic case
- Size: 8.5"W x 5.0"D x 8.0"H • Weight: 4.2 lbs.

120150: • Black anodized aluminum case
- Size: 6.4"W x 4.6"D x 7.9"H • Weight: 4.6 lbs.

Includes: Detachable power cord

Part No.	Description	1	10	25
168268	Fume ext. (ESD safe)	$59.95	$53.95	$49.95
120150	Fume extractor	79.95	71.95	64.95
127183	Replace. filters (2/pk)	9.95	8.95	7.95

XYTRONIC Combination 42W Soldering Station and Fume Extractor



- Input voltage: 100/120VAC @ 60Hz
- Power consumption: 42W @ 650˚F (soldering iron)
- Adjustable knob for temperature control (temperature range: 250˚ to 430˚C (500˚ to 800˚F)
- Stability @ idle: ±5˚C (9˚F)
- Maximum air volume: 95/115CFM
- Electronic zero-voltage switching
- LED indicator for pilot light and lighted on-off switch
- Size: 6.4"W x 7.8"H x 4.7"D • Weight: 5.2 lbs.

Includes: Soldering iron, soldering holder, sponge, carbon activated filter, power cord and manual

Part No.	Product No.	1	10	25
183169	456DLX	$109.95	$99.95	$89.95

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

Analog Display Soldering Station

Maintains a steady temperature using a cartridge heating element, providing a longer life for the solid soldering tip.

SMD Tip Below



114569

183177

- Electronic temperature control from 300°F to 850°F
- Zero-voltage thyristor switching protects voltage and current sensitive devices such as CMOS ICs against voltage spikes
- Power-on and Heater-on LED indicators
- Power consumption: 60 watts
- See below right for replacement sponge (134631)
- Size: 4.3"W x 6.0"D x 3.4"H
- Weight: 4.1 lbs. • UL listed

Includes: one 1/16" tip (P/N 35115 – below)

Part No.	Product No.	Description	1	10	25
114569	XY1683C	Analog display station	$89.95	$79.95	$72.95
183177	XY960A	Analog display station	99.95	89.95	79.95

Combo Soldering/ Desoldering Station and Desoldering Station



125508 (Desolder Station)
Size: 9.2"L x 7.2"W x 3.6"H

- XY968D: Digital Fahrenheit/Centigrade read out
- XY968D/XY999SDA: Anti-Clog/Energy Saver
- Maintenance free, quiet operation
- Simple fine tune feature to select 300˚F – 850˚F range
- Vacuum pump activated "on demand" using finger tip switch on desolder handle
- Spike control feature protects current sensitive components such as CMOS ICs
- Rapid heat-up/recovery design sensor monitors tip to detect extremely small temperature deviations
- See right for replacement sponge (P/N 134631)
- One-year warranty



125516 (Combo Solder/Desolder)
Size: 11"L x 10"W x 4"H

Part No.	Product No.	Description	Wt. (lbs.)	1	5
125508	XY968D	Desoldering station	13.1	$299.95	$269.95
125516	XYT988	Soldering/desoldering station	18.1	399.95	359.95

SMD Tweez Iron



168583

168410

- Maximum efficiency ceramic heating elements insures rapid heat-up and instant heat recovery
- 120VAC • Max. temp.: 760˚F
- Heater insulation exceeds 100MΩ
- Heater power consumption: 35W x 2
- UL approved

Part No.	Product No.	Description	Wt. (lbs.)	1	10	25
168410	TWZ236	SMD tweez iron	0.9	$59.95	$53.95	$48.95
168583	46-060102	Tip .078" for P/N 168410	.02	9.95	8.95	7.95
168591	46-060115	Tip .590" for P/N 168410	.02	10.95	9.95	8.95

Digital Display Soldering Station

Now ESD Safe!

The XY960-ESD Digital Display Soldering Station is designed for soldering situations where precise temperature is required for sensitive components.



168401

- Easy to read .560"H 3-digit LED readout
- Temperature is maintained at ±6°F tolerance of the set temperature
- Electronic temperature control from 200°F to 878°F
- External calibration port
- Zero-voltage thyristor switching protects voltage and current sensitive devices such as CMOS ICs against voltage spikes
- Power-on and Heater-on LED indicators
- Power consumption: 60 watts • UL listed
- See below for replacement sponge (P/N 134631)
- Size: 5.1"W x 8.0"D x 4.0"H • Weight: 4.8 lbs.

Includes: one 1/16" tip (P/N 35115 – below)

Part No.	Product No.	Description	1	10	25
162456	XY960D-ESD	Soldering station with ESD	$109.95	$99.95	$89.95
168401	TWZ50ESD	SMD tweezer iron	69.95	62.95	56.95
168583	46-060102	Tip .078" for P/N 168401	9.95	8.95	7.95
168591	46-060115	Tip .590" for P/N 168401	10.95	9.95	8.95

Temperature Controlled Soldering Station

Grounded Soldering Tip



156785

- Temperature controlled hand soldering
- Insulated ceramic heating element for rapid heat-up and heat recovery • Fully grounded
- Heater insulation exceeds 100MΩ
- Thermal control adjustable from 250˚C to 450˚C (500˚F to 850˚F)
- Ergonomic mini handle • UL listed
- Soldering handle is attached to the base with silicone rubber grounded power cord
- Zero voltage circuitry eliminating high voltage spike and magnetic field generation • Size: 7.0"L x 4.5"W x 3.5"H
- **P/N 156814:** standard tip for 156785

Includes: instruction manual

Part No.	Product No.	Description	Wt. (lbs.)	1	10	25
156785	XYT379	Soldering station	2.5	$59.95	$53.95	$48.95
156814	44-510601	Sharp conical 1/32" tip	.02	3.95	3.49	2.95
156822	44-510604	Chisel conical 1/16" tip	.02	3.95	3.49	2.95

Accessory Sponges



134631

- P/N 134640 for models XY168, XY1683 (previous models) and XY1683C (above left)
- P/N 134631 for models XY960, XYT369 (previous models), XY379 (above) and XY100S (pg 117)

Part No.	Prod. No.	Description	1	10	100
134640	SP815	48mmL x 48mmW sponge	$1.49	$1.25	$.99
134631	SP715	48mmL x 52mmW sponge	1.49	1.25	.99

Tips & Replacement Parts For XYtronic Soldering & Desoldering Products



Figure 1 Figure 2 Figure 3 Figure 4 Figure 5 Figure 6 Figure 7 Figure 8 Figure 9

Part Number	Product Number	Description	Wt. (lbs.)	Fig.	For Model Numbers (*Previous Models) JSI258*	XY136	XY168*	XY1683C	XY960/AESD*/DESD	XY966D*	XY968D	XY999SDA*	XY2660*	XY200GX	Pricing 1	10	25
35078	XY1	Soldering tip - semi-chisel 1/32"	.02	1	✓		✓	✓	✓			✓		✓	$3.95	$3.49	$2.95
35115	XY2	Soldering tip - conical chisel 1/16"	.02	2	✓		✓	✓	✓			✓		✓	3.95	3.49	2.95
35238	XY3	Soldering tip - semi-chisel wide 1/8"	.02	1	✓		✓	✓	✓			✓		✓	3.95	3.49	2.95
35326	XY5	Soldering tip - conical bevel 1/32"	.02	3	✓		✓	✓	✓			✓		✓	3.95	3.49	2.95
35334	XY6	Soldering tip - conical sharp 1/64"	.02	4	✓		✓	✓	✓			✓		✓	3.95	3.49	2.95
35191	XY25	Soldering tip - conical sharp 1/64"	.02	5									✓		4.95	4.49	3.95
35297	XY37	Heating element- (nichrome)	.05	6			✓	✓	✓			✓			19.95	17.95	15.95
35318	XY48	Assembly - 60W w/ nichrome heater	.40	7			✓	✓	✓			✓			29.95	26.95	23.95
127634	XY50	Desoldering tip - 1.0mm (.0394")	.01	8						✓	✓	✓			7.95	6.95	5.95
127642	XY51	Desoldering tip - 1.2mm (.0472")	.01	8						✓	✓	✓			7.95	6.95	5.95
127651	XY52	Desoldering tip - 1.5mm (.0586")	.01	8						✓	✓	✓			7.95	6.95	5.95
140231	XY461	Soldering tip - SMD flat pack 5.5mm	.03	9				✓	✓			✓			7.95	6.95	5.95
181913	XYB01	Soldering tip - conical chisel 1/32"	.02	5		✓									3.45	3.09	2.78

Economical High-Performance Soldering Iron

A high quality soldering iron that is suitable for both professional and do it yourself applications.



NEW

- 120VAC: 6'cord with 3-prong plug
- 60W power consumption • Length: 9"

Part No.	Product No.	1	10	25
195223	200PHG	$14.95	$13.45	$12.11

Temperature Controlled Soldering Station

ESD Safe Station



SALE

- Temperature controlled hand soldering
- High insulation/long life ceramic heating element
- Accurate heat sensing and compensation
- Thermal control adjustable from 150˚C to 450˚C (300˚F to 850˚F) and maintained within ±3˚C (±6˚F)
- ESD safe and spike free circuitry
- Temperature lock to prevent unwanted adjustments
- External calibration port
- Size: 7.7"L x 5.3"W x 3.8"H • Weight: 4.7 lbs.

Includes: Instruction manual and Allen wrench

Part No.	Product No.	Description	1	10
168719	XY136ESD	Station	$89.95	$79.95

Thermally Balanced Soldering Iron

The XY200GX is a thermally balanced soldering iron for the professional or hobbyist.



- 120VAC; 6' cord • 25 watt power consumption
- Interchangeable tips (pg 116)
- One-year warranty • UL listed • Length: 8.0"

Includes: 1.6mm conical tip

Part No.	Description	1	10	25
129040	25W solder. iron	$12.95	$11.49	$10.49

Soldering Iron, Stand & Sponge

116572: (JS1258)

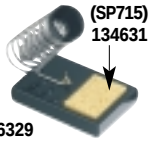
- 16-30 watt variable
- Length: 7.5"
- Weight: 0.6 lbs.



116572

36329: (100S)

- Black anodized steel base – 5.3"L x 3.3"W
- See below for replacement sponge (P/N 134631)
- Fits most soldering irons .85" diameter



(SP715)
134631
36329

Includes: sponge **(SP715)**

Part No.	Description	1	10	100
116572	Soldering iron	$19.95	$17.95	$15.95
36329	Soldering stand	3.49	2.95	2.49
134631	Sponge (for 100S)	1.49	1.25	.99

Soldering Tip Cleaner with Stand

- For cleaning soldering iron tips without the use of water and sponge
- Rubberized base for stability
- Metal wool for cleaning



Part No.	Description	1	10	50
156777	Tip cleaner & stand	$6.95	$6.25	$5.59
160004	Metal wool replacement	2.49	2.25	1.95

6' No-Clean Desolder Braids

Meets all of the most stringent soldering standards for worldwide application including: MIL-F-142560D Type R, NASA specification NHB5300.4, NPC200-4 and SP-5002. • Length: 6'

6' for the price of 5'!



139951 124126

Part No.	Description	1	10	100
139951	.030"W desolder braid	$2.25	$1.95	$1.75
124126	.060"W desolder braid	2.25	1.95	1.75
124118	.085"W desolder braid	2.25	1.95	1.75

Lead-Free Solder Tip Tinner

Use will prevent oxide buildups and tin depletion on the tip which will increase tip life, and heat transfer resulting in a better solder joint!



Safe and Effective!

- 0.7 oz. tin with self adhesive pad

Part No.	Description	1	10	50
132986	Lead-free tip tinner	$4.95	$4.59	$4.19

5' Desoldering Braids

- Easy to use handy dispenser
- Braided copper with flux



41099

Part No.	Description	1	10	100
41081	.079"W braid (5')	$.99	$.79	$.65
41099	.098"W braid (5').....	1.09	.89	.75
153461	.120"W braid (5')	1.25	1.09	.99

Rosin Paste Flux (2 Oz.)

A highly active non-corrosive & non-conductive flux with excellent wetting action. For electrical / electronic applications. Permits soldering of even difficult metals such as brass or nickel.



SALE

Part No.	Description	1	10	100
73584	Rosin paste flux	$1.15	$1.05	$.92

Desoldering Wick

No more burnt fingers

- Length: 5' • 0.067" wide
- Handy dispenser • No clean flux formula
- Pure copper braid



Part No.	Description	1	10	25
175986	0.067" braid	$2.49	$2.24	$2.02

Solder Bars

- Used for soldering pots
- Tin/lead
- Size: 13"L x 0.9"Dia.



170464

Part No.	Description	Wt. (lbs.)	1	10
176057	Solder bar (60/40)	1.1	$6.95	$6.25
170464	Solder bar (63/37)	1.8	10.95	9.95

300 Watt Solder Pot

Temperature Regulated between 420˚C - 450˚C



- Input voltage: 110VAC @ 2.7A; 50/60Hz
- HI/LO switch selectable for temperature
- 2 conductor power cord; 5' 9" long
- Holds up to 1 bar of P/N 170464 or 176057, below
- Size: (unit) 4.8"H x 5.5" Dia. (base)
- Size: (tub) 2.4"Dia. x 1.6"D
- Weight: 5.9 lbs. • One-year warranty

Part No.	Description	1	10	25
160303	300W solder pot ...	$59.95	$53.95	$48.95

600 Watt Solder Pot

Temperature Adjustable



- Input voltage: 110VAC @ 5.5A
- 2-prong power cord (5'5")
- Tin boiler temp.: 0˚C to 500˚C
- Self regulating temperature
- On-off power switch and LED indicator for heat
- Holds up to 3 bars of P/N 170464 or 176057, below
- Size (unit): 3.9"L x 1.6"D
- Size (tub): 6.8"L x 5.5"W x 2.8"H
- Weight: 7.4 lbs.

Includes: Skimmer and removable dross tray

Part No.	Description	1	10
172275	600W solder pot	$189.95	$159.95

2000 Watt Solder Pot



- Input voltage: 110V @ 18A 60/50Hz single phase
- 3 conductor pigtail power cord: 5' long
- Thermostat control for setting temperature from 50°C to 300°C
- Holds up to 48 bars of P/N 170464 or 176057, below
- Size (unit): 18.1"L X 11.5"W X 6.0"H
- Size (tub): 12.0"L X 8.0"W X 2.9"H
- Weight: 23.1 lbs. • One-year warranty

Part No.	Description	1	5
149876	2000 watt solder pot	$329.95	$299.95

Ultrasonic Steri-Cleaner



- Power: 80W
- Operating freq: 46kHz
- Power supply: 110VAC @ 60Hz, standard 2-prong 6' cord
- Tank capacity: 0.5 gallons
- Size (unit): 6.8"W x 6.5"D x 8.0"H
- Size (tank): 6.0"W x 5.4"D x 4.0"H
- Weight: 4.3 lbs. • One-year warranty

Part No.	Description	1	10
149841	Ultrasonic steri-cleaner ...	$249.95	$224.95

Rosin Core Solder Rolls and Pocket Packs

- P/N 151474 is organic core



141778 32117
170456 73576

Part No.	Mfg.	% Composition Tin	Lead	Silver	Dia. (In.)	Wt. (lbs.)	Pricing 1	10	50	100
73576	Kester (pak)	60	40	0	.031	0.04	$1.29	$1.15	$1.05	$.89
32117	Kester	60	40	0	.031	1.00	11.95	10.95	9.95	8.95
73605	Kester (pak)	62	36	2	.020	0.10	1.75	1.49	1.25	.99
112344	Kester	63	37	0	.020	1.10	15.95	14.49	13.95	12.95
151474	Kester	63	37	0	.031	1.00	11.95	10.95	9.95	8.95
170456	—	60	40	0	.031	0.06	.99	.85	.69	.55
141794	—	60	40	0	.031	0.55	4.95	4.49	3.95	3.49
141786	—	60	40	0	.031	1.10	7.95	6.95	6.25	5.59
141778	—	60	40	0	.031	2.20	13.95	12.95	11.95	10.95

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

CAIG Chemical Products



195071 195143 195151 195098 195119



195127 195135 195080 195101

CaiKleen™ TRP

- Citrus cleaner/defluxer • Excellent label remover
- Citrus based

Part No.	Description	Fl. (oz.)	1	12
195071	CaiKleen aero. spray	7.0	$6.95	$6.25
195080	CaiKleen pen	0.4	12.95	11.65

CaiKleen™ RBR

- Rubber cleaner and rejuvenator • Concentrate

195143: Pump bottle
195151: Needle dispenser

Part No.	Description	Fl. (oz.)	1	12
195143	CaiKleen RBR spray	5.0	$12.95	$11.65
195151	CaiKleen RBR liquid	0.8	8.95	8.05

CaiKleen™ A/V

- VTR/VCR precision cleaner • HCFC blend

Part No.	Description	Fl. (oz.)	1	12
195098	CaiKleen pump spray	5	$12.95	$11.65
195101	CaiKleen pen	0.4	12.95	11.65
195119	CaiKleen liquid	4	8.95	8.05

CaiKleen™ NF

- Contact cleaner/degreaser, nonflammable fast evaporating • Vertrel XMS

Part No.	Description	Fl. (oz.)	1	12
195127	CaiKleen pump spray	5.0	$21.95	$19.75
195135	CaiKleen liquid	4.0	17.95	16.15

CAIG CircuitWriter™



- Conductive ink
- Silver based

Part No.	Description	Fl. (oz.)	1	12
195160	CircuitWriter pen	0.2	$13.95	$12.55

CAIG CircuitSealer™



- Conformal coating
- Acrylic based

Part No.	Description	Fl. (oz.)	1	12
195178	CircuitSealer pen	0.2	$11.95	$10.75

CAIG CaiKote™ 44 Kit



- Conductive carbon coating for button contacts and membranes
- Carbon based

Part No.	Description	Wt. (oz.)	1	12
195186	CaiKote 44 kit	0.2	$24.95	$22.45

Order 24/7, 365 Days a Year

TECHSPRAY Workshop Chemical Products

- Safe on plastics • EPA SNAP approved, no CFCs or HCFCs • **NOTE: Shipped via UPS ground only**



139900 118050 118041 118033 195258 139934 195240 195266 195282 195291

Envi•Ro•Tech™ Duster

- Acc-u-sol trigger • 10 oz. aerosol can

Part No.	Description	Wt. (lbs.)	1	12
139900	Dusting gas w/ trigger	0.8	$6.95	$6.25

ECOLINE Cleaner Degreaser

- Rapid evaporation • 10 oz. aerosol can

Part No.	Description	Wt. (lbs.)	1	12
118050	Cleaner degreaser	0.8	$8.29	$7.46

ECOLINE Flux Remover

- Dissolves type R, RMA, RA, SA and most no-clean fluxes • 10 oz. aerosol can

Part No.	Description	Wt. (lbs.)	1	12
118041	Flux remover	0.8	$9.95	$8.95

ECOLINE Contact Cleaner

- Ideal for switches, relays, contact pads and other places of electrical connections • 10 oz. aerosol can
- Solvent will not damage switch housings

Part No.	Description	Wt. (lbs.)	1	12
118033	Contact cleaner	0.9	$8.95	$7.95

LICRON Permanent Dissipative Coating

- Excellent adhesion to metal, plastics, paints, and most other surfaces • Superior adhesion
- Translucent conductive coating • 10 oz. aerosol can

Part No.	Description	Wt. (lbs.)	1	12
195258	Static dissipative	1.0	$37.49	$33.95

Envi•Ro•Tech™ Freezer

Rapidly evaporating liquid that can chill to -62˚F.

- 10 oz. aerosol can

Part No.	Description	Wt. (lbs.)	1	12
139934	Envi•Ro•Tech freezer	0.8	$7.95	$6.95

VORTEX 360 Duster

- Vortex 360˚ invertible valve • 10 oz. aerosol

Part No.	Description	Wt. (lbs.)	1	12
195240	Dusting gas	0.8	$9.95	$8.95

ADVANEX 10 All Purpose Lubricant

- For all industrial application
- Penetrates leaving a thin, protective coating that cleans and lubricates • 15 oz. aerosol

Part No.	Description	Wt. (lbs.)	1	12
195266	All purpose lubricant	1.3	$3.45	$3.10

EQUINOX Gold Cleaner Degreaser

- Water based, safe on plastics and most metals
- For heavy industrial use • 1 quart trigger sprayer

Part No.	Description	Wt. (lbs.)	1	12
195282	Cleaner/degreaser	0.5	$6.25	$5.62

Fiber Optic Cleaning Kit

- For fiber optic preparation

Includes: Enviro-Tech duster; Isopropyl alcohol; Narrow-tip foam swabs; TechClean absorb wipes

Part No.	Description	Wt. (lbs.)	1	6
195291	Fiber optic cleaner kit	1.0	$26.95	$24.25

CAIG Chemical Products



194968 194976 195004 195012 195021 195039 195063 194984 194992

ProGold™

- Conditioner, preservative and lubricant for plated electrical connections (-34˚C to 200˚C)

194950: 5% solution
194968: 100% solution
194976: • 100% solution • Brush applicator

Part No.	Description	Fl. (oz.)	1	12
194950	ProGold aero. spray	6.0	$17.95	$16.15
194968	ProGold pen	0.2	20.95	18.86
194976	ProGold liquid	0.25	19.95	17.95

DeoxIT™

- Deoxidizer, cleaner and preservative for metal electrical connections

195004: 5% solution aerosol spray
195012: 100% solution
195021: • 100% solution • Brush applicator

Part No.	Description	Fl. (oz.)	1	12
195004	DeoxIT D5 spray	6.0	$10.95	$9.86
195012	DeoxIT pen	0.2	14.95	13.46
195021	DeoxIT liquid	0.25	10.95	9.86

OpticALL™ Spray

- Long lasting anti-static cleaner and preservative for glass, plastic and metal
- Concentrate

Part No.	Description	Fl. (oz.)	1	12
195039	OpticALL aerosol	6.0	$5.95	$5.35
195047	OpticALL aerosol	13.5	8.95	8.05

StaticALL™ Spray

- Neutralizes static buildup • Concentrate

Part No.	Description	Fl. (oz.)	1	12
195055	Aerosol spray	6.0	$6.95	$6.25
195063	Aerosol spray	13.5	9.95	8.95

R5™

- Nonflammable and safe on plastics

194984: Power Booster Spray • 5% solution
194992: 100% solution

Part No.	Description	Fl. (oz.)	1	12
194984	Aerosol spray	7.0	$25.95	$23.36
194992	Liquid squeeze tube	0.06	4.95	4.45

Digital Multimeter Quick Selection Guide

*See indicated page for more details on each product

Part Number	Mfr. No	Page*	Features: Display Count	Analog Bargraph	RS232 PC Interface	Autorange	True RMS	Standard Measurement Functions (All have VDC, VAC, Resistance, Current†): Capacitance	Inductance	Frequency	Temperature	Special Measurement Functions: Diode Test	Logic Test	Continuity Test	Transistor h_{FE} Test	Price
Handheld Type																
119212	JE110	119	2000									✔			✔	**$17.95**
192647	Wavetek 10XL	123	2000									✔		✔		**39.95**
192621	Wavetek/MM 15XL	123	2000									✔	✔	✔		**59.95**
177480	AEEC2890	121	2000					✔		✔	✔	✔		✔	✔	**49.95**
141250	BelMerit DX405	119	2000					✔		✔		✔		✔	✔	**69.95**
192604	Wavetek 23XT	123	2000								✔	✔	✔	✔	✔	**74.95**
192575	Wavetek 25XT	123	2000					✔		✔		✔	✔	✔	✔	**79.95**
147096	BelMerit DX460L	119	2000					✔	✔	✔		✔	✔	✔	✔	**99.95**
27115	Metex M3800	120	2000													**39.95**
155483	Metex ME-21	120	2000	✔	✔					✔		✔	✔	✔		**59.95**
155475	Metex ME-22	120	2000	✔	✔					✔	✔	✔	✔	✔	✔	**79.95**
155491	Metex ME-22T	120	2000	✔	✔		✔			✔	✔	✔	✔	✔	✔	**89.95**
160813	Metex M3640D	120	2000	✔	✔			✔		✔	✔	✔		✔	✔	**99.95**
192639†	Wavetek/MM DM78A	123	3200	✔					†(No current)			✔		✔		**34.95**
101936	DM333	121	3200	✔		✔						✔		✔		**67.95**
192612	Wavetek/MM 35XL	123	3200	✔		✔		✔				✔		✔		**69.95**
182035	Fluke 73-III	122	3200	✔		✔						✔		✔		**148.95**
192583†	Wavetek/MM AC40A	123	4000			✔			†(No DC current)					✔		**79.95**
117372	Metex M3850D	120	4000	✔	✔	✔		✔		✔	✔	✔		✔	✔	**109.95**
137461	Metex M3860D	120	4000	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	**139.95**
160821	Metex M3860M	120	4000	✔	✔	✔	✔	✔		✔	✔	✔	✔	✔	✔	**159.95**
163029	TPI 255	121	4000			✔								✔		**99.95**
163011	TPI 185	121	4000	✔	✔	✔	✔	✔		✔		✔		✔		**189.95**
163037	TPI 296	121	4000	✔		✔	✔			✔		✔		✔		**189.95**
192591†	Wavetek/MM DM73A	123	4200						†(No current)					✔		**69.95**
190967	Fluke 110	122	6000	✔		✔	✔	✔		✔		✔	✔	✔		**98.95**
190975	Fluke 111	122	6000	✔		✔	✔	✔		✔		✔	✔	✔		**128.95**
185527	Fluke 112	122	6000	✔		✔	✔	✔		✔		✔	✔	✔		**149.95**
192655	Fluke 175	122	6000	✔		✔	✔	✔		✔		✔				**168.95**
192663	Fluke 177	122	6000	✔		✔	✔	✔		✔		✔				**188.95**
185535	Fluke 179	122	6000	✔		✔	✔	✔		✔	✔	✔				**208.95**
136590	Mastech MY65	120	20,000					✔		✔				✔	✔	**69.95**
144872	Metex M4640A	120	20,000	✔	✔			✔		✔		✔		✔	✔	**139.95**
195670	Fluke 87-IV	122	50,000	✔		✔	✔	✔		✔	✔					**299.95**
164312	Fluke 89-IV	122	50,000	✔		✔	✔	✔		✔	✔	✔		✔		**349.95**
185199	B&K BK5360	121	50,000	✔		✔	✔	✔		✔		✔		✔		**174.95**
185201	B&K BK5380	121	50,000	✔		✔	✔	✔		✔		✔		✔		**199.95**
182043	Fluke 189	122	50,000	✔		✔	✔	✔		✔	✔	✔		✔		**398.95**
Bench Type																
160830	Fluke 8010A	122	2000													**199.95**
132564	DM441	121	20,000				✔			✔		✔			✔	**229.95**
166852	Metex MXD4660A	121	20,000	✔	✔		✔			✔		✔	✔	✔	✔	**249.95**

SALE *Over 700 items up to 60% off —See pages 4 & 5 for complete details* SALE

BelMERIT

3½-Digit Multimeter

All Models:
- Large 0.7" LCD digit height
- Function range annunciators
- **DC voltage:** 200mV-1000V
- **AC voltage:** 200mV-750V
- **DC/AC current:** 200µA-10A (fuse protected)
- **Frequency:** 2kHz-20MHz
- Auto power off
- Diode and continuity test
- Z_{IN} = 10MΩ
- Input warning beeper
- Data hold

Includes: Manual, test probes and 9V battery

141250: Basic Model with Transistor h_{FE}
- **Resistance:** 200Ω-20MΩ
- **Capacitance:** 2nF-20µF
- Transistor h_{FE} (NPN/PNP)

147096: Inductance Extended Capacitance, TTL, and CMOS Logic Tests and Peak Hold
- **Resistance:** 200Ω-20MΩ
- **Capacitance:** 2nF-2000µF
- Peak hold
- Inductance: 20mH-20H
- TTL and CMOS logic tests

CE



141250



147096

Part No.	Product No.	Description	Size (W x D x H)	Weight (lbs.)	1	10
141250	DX405	3½-digit meter	3.9" x 2.3" x 8.0"	1.5	**$69.95**	**$62.95**
147096	DX460L	3½-digit meter	4.0" x 1.5" x 8.0"	2.7	**99.95**	**89.95**

3½-Digit Pocket Multimeter



- Measures AC/DC voltage, DC current, h_{FE} and resistance
- 0.5" digit height
- **DC voltage:** 200mV, 2V, 20V, 200V, 1000V
- **AC voltage:** 200V, 750V
- **Resistance:** 200Ω, 2kΩ, 20kΩ, 200kΩ, 2MΩ
- **DC current:** 200µA, 2mA, 20mA, 200mA, 10A
- Diode and continuity test
- Removable test leads
- One-year warranty
- Size: 2.6"W x 1.0"D x 4.8"H
- Weight: 0.5 lbs.

Includes: 9V battery

Part No.	Description	1	10	50
119212	Pocket multimeter ..	**$17.95**	**$15.95**	**$14.49**

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

METEX® 3½-Digit Multimeter

0.5" Digit Height • LCD Readout



- **Resolution:** 100µV minimum
- **DC voltage ranges:** 200mV - 100V
- **AC voltage ranges:** 200mV - 750V
- **DC/AC current ranges:** 20µA - 20A
- **Resistance ranges:** 200Ω - 20MΩ
- Auto zeroing
- Input impedance: 10MΩ
- Overload protection: 1000VDC/750VAC
- See page 128 for compatible leads (P/Ns: 77745, 77770, 21856, 21864)
- Size: 3.5"W x 1.3"D x 6.8"H
- Weight: 1.2 lbs.
- One-year warranty

Includes: Probes, carrying case, manual & 9V battery

Part No.	Product No.	Description	1	10	50
27115	M3800	3½-digit ...	**$39.95**	**$35.95**	**$32.49**

METEX® 3½-Digit Multimeter with RS232 & Analog Bar



- 3½-digit LCD (.65" digit height) with analog bar
- Data hold
- Computer interface (RS232C); DB9M/F cable w/ DOS/Windows® software (3.5" diskette)
- **Resolution:** 100µV minimum
- **DC voltage ranges:** 200mV - 1000V
- **AC voltage ranges:** 200mV - 750V
- **DC/AC current ranges:** 2mA - 20A
- **Resistance ranges:** 200Ω - 2000MΩ
- **Frequency ranges:** 2kHz - 20MHz
- Diode, logic test and continuity test
- One-year warranty
- Size: 3.0"W x 1.5"D x 7.2"H • Weight: 1.8 lbs.

Includes: Manual, probes, 9V battery and software

Part No.	Product No.	1	10	25
155483	ME-21	**$59.95**	**$53.95**	**$44.95**

METEX® 3½-Digit Multimeters RS232, Analog Bar & Temperature



155475

- 3½-digit LCD (.65" digit height) with analog bar
- Data hold
- Computer interface (RS232C); DB9M/F cable w/ DOS/Windows® software (3.5" diskette)
- True RMS (P/N 155491 only)
- **Resolution:** 100µV minimum
- **DC voltage ranges:** 200mV - 1000V
- **AC voltage ranges:** 200mV - 750V
- **DC/AC current ranges:** 2mA - 20A
- **Resistance ranges:** 200Ω - 2000MΩ
- **Frequency ranges:** 2kHz - 20MHz
- **Temperature:** -40˚C - 1200˚C @ 1˚C resolution
- Diode, transistor h_{FE} logic test and continuity test • One-year warranty
- Size: 3.0"W x 1.5"D x 7.2"H • Weight: 1.9 lbs.

Includes: Operating manual, probes, K-type thermocouple, 9V battery and software

Part No.	Product. No.	1	10	25
155475	ME-22	**$79.95**	**$69.95**	**$62.95**
155491	ME-22T (true RMS)	**89.95**	**79.95**	**71.95**



See page 119 for Digital Multimeter Comparison Chart



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METEX® 3½-Digit Multimeter with RS232 & Dual Display



- 3½-digit LCD w/ 2000 counts (.65" digit height)
- Auto/min/max/data hold function
- **Resolution:** 100µV minimum
- **DC voltage ranges:** 200mV - 1000V
- **AC voltage ranges:** 200mV - 750V
- **DC/AC current ranges:** 2mA - 20A
- **Resistance ranges:** 200Ω - 2000MΩ
- Tests continuity, diode, transistor h_{FE}, frequency, capacitance and temperature • One-year warranty
- Size: 3.2"W x 1.2"D x 7.1"H • Weight: 1.8 lbs.

Includes: PC interface cable, probes, temperature probe, manual, software and 9V battery

Part No.	Product No.	1	10	25
160813	M3640D	**$99.95**	**$89.95**	**$79.95**

METEX® 3¾-Digit Multimeter w/ RS232, Temperature & Autorange



- 3¾-digit LCD (⅝" digit height)
- Computer interface (RS232C) w/ software (3.5") and cable
- **Resolution:** 100µV minimum
- **DC voltage ranges:** 400mV - 1000V
- **AC voltage ranges:** 400mV - 750V
- **DC/AC current ranges:** 400µA - 20A
- **Resistance ranges:** 400Ω - 40MΩ
- **Temperature:** -40˚C to +1200˚C
- Diodes and continuity • Data hold switch
- Measures transistor h_{FE}, frequency, and capacitance
- Autoranging all scale settings • One-year warranty
- Size: 3.3"W x 1.8"D x 7.2"H • Weight: 1.8 lbs.

Includes: Manual, software, RS232 interface cable, temperature probe and probes

Part No.	Product No.	1	10	25
117372	M3850D	**$109.95**	**$99.95**	**$89.95**

METEX® 3¾-Digit Multimeter w/ RS232, Dual Display, Inductance & True RMS



True RMS

- 3¾-digit LCD (⅝" digit height)
- True RMS
- **Resolution:** 100µV minimum
- **DC voltage ranges:** 400mV - 1000V
- **AC voltage ranges:** 400mV - 750V
- **DC/AC current ranges:** 400µA - 20A
- **Resistance ranges:** 400Ω - 40MΩ
- **Temperature:** -40˚C to 1200˚C; 1˚ resolution
- Computer interface (MT/RS232C) with software and cable
- Autoranging all measurement settings
- Measures inductance capacitance, transistor h_{FE} and frequency • One-year warranty
- Size: 3.3"W x 1.8"D x 7.2"H • Weight: 1.9 lbs.

Includes: 9V battery and software

Part No.	Product No.	1	10
137461	M3860D	**$139.95**	**$125.95**

METEX® 3¾-Digit Multimeter with RS232 Power Measurements, True RMS & Multi-Display



- Multi-display: 4 simultaneous displays
- 3¾-digit LCD (⅝" digit height)
- True RMS
- **Resolution:** 100µV minimum
- **DC voltage ranges:** 400mV - 1000V
- **AC voltage ranges:** 400mV - 750V
- **DC/AC current ranges:** 400µA - 20A
- **Resistance ranges:** 400Ω -10MΩ
- **Temperature:** -40˚C to 1200˚C; 1˚ resolution
- **Capacitance ranges:** 4nF to 400µF
- **Frequency ranges:** 4kHz to 40MHz
- Measures transistor h_{FE} and wattage
- 2.5 measurements per second • One-year warranty
- Computer interface (RS232) w/ cable and software
- Size: 3.2"W x 1.2"D x 7.5"H • Weight: 2.0 lbs.

Includes: 9V battery, probes and manual

Part No.	Product No.	1	10
160821	M3860M	**$159.95**	**$144.95**

METEX® 4½-Digit Multimeter w/ RS232 & Multi-Display

⅝" Digit Height • LCD Readout



- **Resolution:** 10µV minimum
- **DC voltage ranges:** 200mV - 1000V
- **AC voltage ranges:** 200mV - 750V
- **DC/AC current ranges:** 2mA - 20A
- **Resistance ranges:** 200Ω - 20MΩ
- **Capacitance ranges:** 20nF to 200µF
- **Frequency ranges:** 20kHz to 20MHz
- Diode/continuity: measures forward resistance of a semiconductor junction in kΩ a test current of approximately 1mA
- h_{FE}: display reads approximate h_{FE} value of transistor under test
- Size: 3.3"W x 1.5"D x 7.5"H • Weight: 2.0 lbs.
- LCD size: 2.4"W x 1.3"H • One-year warranty

Includes: Software, test leads, PC interface, manual and 9V battery

Part No.	Product No.	1	10
144872	M4640A	**$139.95**	**$125.95**

MASTECH Lowest Priced 4½-Digit Multimeter



- Extra-large digits (0.8" digit height)
- **Resolution:** 100µV minimum
- **DC voltage ranges:** 200mV - 1000V
- **AC voltage ranges:** 2V - 700V
- **DC/AC current ranges:** 2mA - 10mA
- **Resistance ranges:** 200Ω - 200MΩ
- **Capacitance ranges:** 200pF to 20µF
- Measures transistor h_{FE} and continuity
- Hold button • Auto power off
- Size: 3.9"W x 1.9"D x 8.0"H
- Weight: 1.5 lbs. • One-year warranty

Includes: Protective boot, 9V battery, probes and manual

Part No.	Product No.	1	10	25
136590	MY65	**$69.95**	**$62.95**	**$56.95**

4,000 Count Digital Multimeters

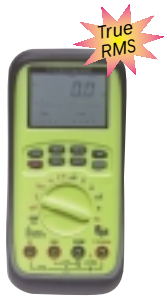
TPI digital meters are field test proven to provide the specific needs for the troubleshooter.

- Carrying pouches provided with clamp meters
- Protective boots provided with multimeters
- Three-year warranty

Includes: Test leads, batteries and manual

Three-year Warranty!

† size with protective boot



Triple display True RMS



Pocket-sized with easy line distortion checking



Applications w/ True RMS and AC/DC current

Features		TPI 185	TPI 255	TPI 296
Digit Height		0.75"	0.45"	0.43"
AC/DC Volts		400mV to 1000V (750VAC)	4V to 600V	40V to 750V
Basic DC Accuracy		0.3%	0.3%	0.75%
AC/DC Amps		40µA to 10A	40A & 400A/NA	40A to 700A
HDR Mode		NA	NA	YES
True RMS		YES	NA	YES
Resistance		400Ω to 40MΩ	400Ω to 40MΩ	400Ω to 40kΩ
Capacitance		4nF to 4000nF	NA	NA
Frequency		200Hz to 200kHz	NA	1kHz & 10KHz
Diode Test/Continuity		YES	BUZZER	YES
Analog Bar Graph		YES	NA	YES
Auto Range/Data Hold		YES/YES	YES/YES	YES/YES
Min/Max/Pea		(Min/Max only)	YES	YES
Sleep Mode/Auto Off		YES/NA	NA/YES	YES/NA
RS232 (cable & software)		Included	NA	NA
Dimensions (L"xW"xH")		7.75 x 3.75 x 2.25†	7.5 x 3.0 x 1.5	9.0 x 3.25 x 1.75
CE or cULus Listed		cULus,UL3111-1,CE	cULus,UL3111-1,CE	cULus,UL3111-1,CE
Part Number		163011	163029	163037
Prices	1 ea.	$189.95	$99.95	$189.95
	10 ea.	$169.95	$89.95	$169.95

2,000 Count Multimeter with Temperature and Frequency Measurement



- 3½-digit LCD (1.0" digit height)
- **Resolution:** 100µV minimum
- **DC voltage ranges:** 200mV to 1000V
- **AC voltage ranges:** 200mV to 700V
- **DC/AC current ranges:** 200µA to 10A
- **Resistance ranges:** 200Ω to 200MΩ
- **Capacitance ranges:** 2nF to 20µF
- **Frequency**: 20kHz • Weight: 1.6 lbs.
- **Temperature** range: -20˚C to 1000˚C
- Diode, transistor & continuity testing
- Data hold switch • Size: 4.0"W x 2.0"D x 8.0"H

Incudes: Manual, probes, temperature probe and 9V battery

Part No.	Product No.	1	10
177480	AEEC2890	$49.95	$44.95

3,200 Count Multimeter



- 3¾-digit (0.53" digit height) LCD with analog bar graph
- **Resolution:** 100µV minimum
- **DC voltage ranges:** 320mV to 1000V
- **AC voltage ranges:** 320mV to 750V
- **DC/AC current ranges:** 320µA to 325.9mA
- **Resistance ranges:** 320Ω to 32.59MΩ
- Diode/continuity test • Auto range
- Auto power off • Data hold
- Size: 7.7"L x 3.9"W x 1.5"H • Weight: 1.5 lbs.

Part No.	Product No.	Description	1	10
101936	DM333	3¾-digit meter	$67.95	$59.95

50,000 Count Digital Multimeters with Analog Bar Graph

BK5360 & BK5380



185199

- BK5380 has better accuracy and resolution in some functions
- True RMS reading
- Auto and manual ranging
- Large LCD display provides easy readability, all test parameters in clear view (0.55" digit height)
- AC/DC voltage protection
- Continuity and diode testing
- CE safety approved
- Basic DC accuracy: BK5360 – 0.1%; BK5380 – 0.025%
- **DC voltage:** 500mV to 1000V (10uV to 100mV resolution)

SALE

	BK5360 Ranges/Resolution	BK5380 Ranges/Resolution
AC Voltage	500mV–750V/100µV–1V	500mV–750V/10µV–100mV
DC Current	5mA–10A/100nA–1mA	500µA–10A/10nA–1mA
AC Current	5mA–1A/1µA–10mA	500µA–10A/10µA–1mA

- **Resistance**: 500Ω to 50MΩ (10mΩ to 1KΩ res.)
- **Capacitance**: 50nF to 50mF (10pF to 10µF res.)
- **Frequency**: 0.6Hz to 500kHz
- **Duty cycle** (BK5360 only)
- Size: 7.5"L x 3.2"W x 1.6"H • Weight: 1.5 lbs.

Includes: Probes and manual

Part No.	Product No.	1	10
185199	BK5360	$174.95	$134.95
185201	BK5380	199.95	149.95

20,000 Count Benchtop Digital Multimeter



- 4½-digit display, 5-digit green LED
- DC accuracy: 0.05%
- Full overload protection
- **Resolution:** 10µV minimum
- **DC voltage ranges:** 200mV - 1000V
- **AC voltage ranges:** 200mV - 750V
- **DC/AC current ranges:** 2mA - 10A
- **Resistance ranges:** 200Ω - 20MΩ
- **Frequency** measurement up to 200kHz
- Continuity check with beeper
- True RMS in AC range
- Data hold, diode check, transistor h_{FE} measurement available
- One-year manufacturer's warranty
- Size: 9.9"L x 9.8"W x 3.6"H • Weight: 6.1 lbs.

Part No.	Product No.	1	10	25
132564	DM441	$229.95	$214.95	$199.95

20,000 Count Benchtop Multimeter w/ RS232, Analog Bar & 4 Displays



- 19999 display counts with automatic polarity indicator
- 1-2 readings per second
- DC accuracy: 0.1% +5 digits
- MIN., MAX., AVE., relative functions
- 10 reading storage and compare
- **Resolution:** 10µV minimum
- **DC voltage ranges:** 200mV to 1000V
- **AC voltage ranges:** 200mV to 750V
- **DC/AC current ranges:** 2mA to 20A
- **Resistance ranges:** 200Ω to 20MΩ
- **Frequency ranges:** 20kHz to 20MHz
- Logic, diode, transistor h_{FE} and continuity test
- Size: 11.2"L x 8.2"W x 3.2"H • Weight: 7.5 lbs.
- One-year warranty

Includes: Manual, power cable, probes and software

Part No.	Product No.	1	10
166852	MXD4660A	$249.95	$224.95

15A AC Line Separator

3-Prong US Connector Type Plug



- Maximum overload: 250VAC @ 15A
- X1 and X10 clamp areas for measuring current
- Convenient 0.1"Dia. meter tip test points for neutral/earth/line
- Compatible with P/N 115756 (pg 127)
- Output socket compatible with US and European 3-prong power connectors • One-year warranty
- Size: 6.0"L x 1.9"W x 1.4"Thick • Weight: 0.4 lbs.

Part No.	Description	1	10
162325	3-prong separator	$9.95	$8.95

For more Test Leads see pages 128 & 129



See page 119 for Digital Multimeter Comparison Chart



Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

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Fluke 73 Series III 3200 Count Analog/Digital Multimeter



- 3200 count digital display with 31 segment analog bar graph
- Cat II 600V rating with over voltage protection
- Automatic touch hold
- Default auto range mode
- **Resolution:** 100µV minimum
- **DC/AC voltage ranges:** 320mV – 600V
- **DC/AC current ranges:** 320mA – 10A
- **Resistance ranges:** 320Ω – 32MΩ
- Diode and continuity test
- Size: 6.6"L x 3.0"W x 1.1"H • Weight: 0.8 lbs.
- Three-year manufacturer's warranty

Part No.	Model No.	1	5
182035	FLUKE 73 III	$148.95	$138.95

Fluke 87 Series IV 50,000 Count Analog/Digital Multimeter



- 50,000 count digital and 51 segment bar graph display
- Backlight with 2 brightness levels
- AC/DC true RMS
- **Resolution**: 1µV minimum
- **DC voltage ranges**: 50mV to 1000V
- **6 DC current ranges**: 500µA to 10A
- **7 AC voltage ranges**: 50mV to 1000V
- **6 AC current ranges**: 500µA to 10A
- **Resistance ranges**: 500Ω to 30MΩ
- **Conductance range**: 50 nanoSiemens
- **Capacitance ranges**: 1.1nF to 50mF
- **Frequency ranges**: 500Hz to 999.99kHz
- **Temperature range**: -200˚C (-328˚F) to 1350˚C (2462˚F)
- Size: 3.9"W x 2.0"D x 8.0"H • Weight: 1.2 lbs.

NEW

Part No.	Model No.	Description	1	5
195670	FLK 87 IV	True RMS	$299.95	$269.95

Fluke 8010A Multimeter

The Fluke 8010A is a portable, bench-type, digital multimeter with 3½ digit liquid crystal display (LCD).



- **Resolution:** 100µV minimum
- **DC voltage ranges:** 200mV – 1000V
- **AC voltage ranges:** 200mV – 700V
- **DC/AC current ranges:** 20µA – 10A
- **Resistance ranges:** 200Ω – 20MΩ
- **Conductance ranges:** 2µS – 200nS
- Size: 7.5"W x 9.6"D x 2.5"H • Weight: 2.6 lbs.

NEW

Part No.	Model No.	1	5
160830	FLUKE 8010A	$199.95	$189.95

Fluke 110 Series 6000 Count Digital Multimeters



- Basic DC accuracy of 0.7%
- True RMS reading
- Autoranging
- Min./max./average functions
- CAT III 600V rated
- **Resolution:** 1mV minimum
- **DC voltage ranges:** 6mV – 600V
- **Resistance ranges:** 600Ω – 40MΩ
- **Capacitance ranges:** 1000nF – 9999µF
- **Frequency ranges:** (voltage input) 5Hz – 50kHz; (current input) 50Hz – 5kHz

185527

- Continuity testing
- Size: 11.8"L x 7.0"W x 3.0"H • Weight: 1.3 lbs.
- Three-year manufacturer's warranty

190967 (Fluke 110):
- **AC voltage ranges:** 6V to 600Vrms

190975 (Fluke 111)/185527 (Fluke 112):
- Backlight display (Fluke 112 only)
- **AC voltage ranges:** 6V – 600Vrms
- **AC current:** 10A
- **DC current ranges:** 6A and 10A

Part No.	Model No.	Description	Price
190967	FLUKE 110	Multimeter	$98.95
190975	FLUKE 111	Multimeter	128.95
185527	FLUKE 112	Multimeter	149.95

See page 119 for Digital Multimeter Comparison Chart



Fluke 175/177/179 6000 Count Digital Multimeter



- True RMS reading
- Min./max./average functions
- Auto hold and manual hold
- IEC 1010 rating Cat IV 600V/ Cat III 1000V
- **Resolution:** 100µV minimum
- **DC/AC voltage ranges:** 600mV – 1000V
- **DC/AC current ranges:** 60mA – 10A
- **Resistance ranges:** 600Ω – 50MΩ
- **Capacitance ranges:** 1000µF – 9999µF
- **Frequency ranges:** (voltage input) 2Hz - 100kHz; (current input) 2Hz - 30kHz;

185535

- **Temperature ranges:** -40 to +400˚C (-40 to +725˚F)
- Size: 6.3"L x 3.3"W x 9.2"H • Weight: 1.5 lbs.
- Lifetime manufacturer's warranty

192655: Fluke 175 Multimeter
- Basic DC accuracy of 0.15%

NEW

192663: Fluke 177 Multimeter
- Basic DC accuracy of 0.09% • Backlight display

185535: Fluke 179 Multimeter
- Basic DC accuracy of 0.09% • Backlight display
- Temperature measurement is C˚ and F˚

Part No.	Model No.	1	10
192655	FLUKE 175	$168.95	$159.95
192663	FLUKE 177	188.95	178.95
185535	FLUKE 179	208.95	187.95

Fluke 89-IV & 189 50,000 Count Multimeter w/ Data Logging



- Digital and analog bar graph display
- Backlight with 2 brightness levels
- Fast auto range
- AC/DC true rms
- **Resolution:** 1µV minimum
- **DC/AC voltage ranges:** 50mV – 1000V
- **DC/AC current ranges:** 500µA – 10A
- **Resistance ranges:** 500Ω – 500MΩ
- **Capacitance ranges:** 1.1nF – 50mF
- **Frequency ranges:** 500Hz – 1MHz
- Temperature: -200˚C (-328˚F) to 1350˚C (2462˚F)

182043

- Conductance, diode testing and continuity function capable
- Data logging: 288 intervals can be stored
- Can save up to 100 readings
- Size: 8.0"L x 3.9"W x 2.0"Thick • Weight: 2.0 lbs.
- Lifetime manufacturer's warranty

182043: Dual rating compliance CAT IV compliance rated @ 1000V

164312: Resistance ranges: 500Ω – 30MΩ

Part No.	Model No.	1	5
182043	FLUKE 189	$398.95	$378.95
164312	FLUKE 89 IV	349.95	314.95

Fluke 99 Series B 100MHz ScopeMeter®



Fluke ScopeMeter® 99 Series B is one of the most powerful hand-held digital storage oscilloscopes used by more engineers world-wide than any other.

- 60 or 100MHz bandwith
- Dual channel DSO and 5 GS/s repetitive sampling provides excellent signal fidelity
- With the Fluke DP 120 differential voltage probe, measurements on two channels with different ground potential are easy and safe
- Extensive trigger capabilities
- Cursor measurements
- 30k deep memory ScopeRecord™
- True RMS, 3000 count DMM with 0.5% accuracy
- Three-year manufacturer's warranty
- Size: 5.5"W x 2.5"D x 10.8"H • Weight: 7.6 lbs.

Part No.	Model No.	1	5
164099	FLUKE 99B-003R	$1749.95	$1574.95

Fluke 123 20MHz Industrial ScopeMeter®

Scope, Meter and Recorder in One Tool!



The Fluke 123 is the ideal choice for troubleshooting industrial machinery, instrumentation, control and power systems. Why? Because of a breakthrough in scope technology. It's called Connect-and-View™. The Fluke 123 automatically recognizes signal patterns and automatically sets up correct triggering, timing and amplitude for stable displays of complex industrial signals.

- **Scope:** dual input 20MHz oscilloscope
- **Meter:** dual input 5000 count True RMS meter
- **Recorder:** dual channel TrendPlot™
- Three-year manufacturer's warranty
- Size: 4.5"W x 2.0"D x 9.1"H • Weight: 5.8 lbs.

Part No.	Model No.	Price
162747	FLUKE 123-003	$899.95

Fluke 1520 4000 Count Analog/Digital MegOhMeter



- Large backlit LCD display with analog bar graph and digital display
- Test voltages of 250V, 500V, and 1000V
- Insulation resistance ranges: 4.000MΩ/40.00MΩ/ 400.0MΩ/ 4000MΩ
- Measurement ranges: 0.200MΩ to 4000MΩ
- Accuracy: 2% + 2 counts (0.2MΩ to 100MΩ); 10% + 2 counts (100MΩ to 4000MΩ)
- LO-Ohms range: 40.00Ω (.10Ω to 40.00Ω) with 2% + 2 count accuracy
- Bar graph • 4000Ω resistance range
- Measures AC/DC voltage up to 600V with 2% + 2 count accuracy • Last reading memory
- 5,000 readings on 4 "C" cell batteries
- Auto-shut off after 15 minutes of inactivity
- Auto discharge of stray voltages before and after tests
- Size: 14.0"L x 4.4"W x 8.5"H • Weight: 3.8 lbs.
- Three-year manufacturer's warranty

Includes: 4 "C" cell batteries; 2 each of test probes, alligator clips, and test leads; manual, strap and carrying case

Part No.	Model No.	1	5
182908	Fluke 1520	$648.95	$618.95

Fluke 620R Cable Meter



- Locates wiring/connection errors (distance to the open or short)
- Measures cable length (ranges: 1 to 999 feet with 1 foot resolution; 5% ±3 ft. accuracy)
- Portable and easy to use
- Single person operation
- Detects shorts, opens, crossed wiring, reversed wiring, and split pairs
- Displays in feet or meters
- Tests all LAN cable types: UTP, STP, FTP, Coax
- Tests 2/3/4 wire pairs • Refurbished
- Size: 7.3"L x 3.9"W x 1.8"H • Weight: 0.8 lbs.
- One-year manufacturer's warranty

Part No.	Model No.	Description	1	5
182027	FLK620R	620 Refurb.	$479.95	$431.95

Wavetek Meterman 5-Function Multimeter



- 3200-count display with analog bargraph
- 5 functions/16 ranges
- Data hold
- Auto-off saves batteries
- **Resolution:** 0.1mV minimum
- **DC voltage ranges:** 320mV – 450V
- **AC voltage ranges:** 32mV – 450V
- **Resistance ranges:** 320Ω – 32MΩ
- Diode test and continuity beeper
- Size: 4.3"L x 2.1"W x 0.4"D
- One-year warranty

NEW

Includes: Case

Part No.	Description	1	10
192639	DM78A	$34.95	$31.49

Your best source for JAMECO
New and Out-of-Production
Electronics Products at Value Prices

Wavetek 7-Function Multimeter



- Unique voltage Safety Tester™
- 7 function/22 ranges & 6 range volt tester
- Large 17mm (.67") display
- 2000 count
- **Resolution:** 0.1mV minimum
- **DC voltage ranges**: 200mV – 1000V
- **AC voltage ranges:** 200V – 750V
- **DC current ranges:** 200µA – 10A
- **Resistance ranges:** 200Ω – 20MΩ
- Safety tester: 6, 12, 24, 50, 110 and 220 volts
- Diode test and continuity beeper
- Size: 6.1"L x 2.8"W x 1.3"H • One-year warranty

NEW

Part No.	Description	1	10
192647	10XL digital multimeter	$39.95	$34.95

Wavetek Meterman 8-Function Multimeter



- 8 functions/30 ranges
- 2000 count
- **Resolution:** 0.1mV minimum
- **DC voltage ranges**: 200mV – 1000V
- **AC voltage ranges:** 200mV – 750V
- **DC/AC current ranges:** 200µA – 10A
- **Resistance ranges:** 200Ω – 2000Ω
- Logic: TTL, up to 20MHz, pulse width >25ns
- Diode test and continuity beeper
- Size: 6.1"L x 2.8"W x 1.3"H • One-year warranty

NEW

Part No.	Description	1	10
192621	15XL digital multimeter	$59.95	$54.95

Wavetek Meterman 8-Function Multimeter



- 8 functions/26 ranges
- Large digital and analog bargraph display • 3200 count
- Long 1000 hour battery with auto off to preserve battery
- **Resolution:** 0.1mV minimum
- **DC voltage ranges**: 320mV – 600V
- **AC voltage ranges:** 3.2mV – 600V
- **DC current ranges:** 320µA – 10A
- **AC current ranges:** 320mA – 10A
- **Resistance ranges:** 320Ω – 32MΩ
- **Capacitance ranges:** 32µF – 32mF
- Diode test and continuity beeper • Data hold
- Size: 6.1"L x 2.8"W x 1.3"H • One-year warranty

NEW

Part No.	Description	1	10
192612	35XL digital multimeter	$69.95	$62.95

Wavetek 10 & 11-Function Multimeters



- **Resolution:** 0.1mV minimum
- **DC voltage ranges:** 200mV – 1000V
- **AC voltage ranges:** 200mV – 750V
- **DC/AC current ranges:** 200µA – 10A
- NPN/PNP transistor, TTL/CMOS logic and diode test • 2000 count
- Continuity beeper • Data hold
- Size: 7.2"L x 3.1"W x 1.5"H
- One-year warranty

NEW

192604: 23XT

- Unique voltage Safety Tester®
- 10 functions/28 ranges & 4 voltage testers
- **Resistance ranges:** 200Ω – 2000MΩ
- **Temperature:** -20˚ to +750˚C (-4˚ – 1400˚F)

192604



192575: 25XT

- 11 functions/32 ranges
- Zero adjust knob
- **Resistance ranges:** 200Ω – 20MΩ
- **Capacitance ranges:** 200pF – 20mF
- **Frequency:** 40kHz

NEW

192575

Part No.	Product No.	Description	1	10
192604	23XT		$74.95	$69.95
192575	25XT		79.95	71.95

Wavetek Meterman 5-Function Clamp Meter



- 400A range
- 600V AC and DC range
- 4000 count display with bargraph
- **Resolution:** 0.1mV minimum
- **DC/AC voltage range:** 600V
- **AC current range:** 400A
- **Resistance range:** 400Ω
- Continuity test • Auto off
- 1.0" max conductor size • Autoranging
- Size: 11.4"L x 6.6"W x 2.1"D • Data hold
- One-year warranty

NEW

Part No.	Description	1	10
192583	AC40A	$79.95	$71.95

Wavetek Meterman 4-Function Pen Meter



- Unique "Pen" shape autoranger
- Allows two-hand or one-hand operation in tight spots
- 4200 count • Auto off • Probe Hold™
- **Resolution:** 0.1mV minimum
- **DC voltage ranges:** 420mV – 300V
- **AC voltage ranges:** 4.2mV – 300V
- **Resistance ranges:** 420Ω – 4.2MΩ
- Continuity test • One-year warranty
- Size: 6.7"L x 1.3"W x 1.0"D

NEW

Part No.	Description	1	10
192591	DM73A	$69.95	$62.95

Digital LCR Meter



- 3½-digit display (0.5" digit height)
- **Inductance ranges:** 200µH to 200H
- **Capacitance ranges:** 200p*f* to 2000µ*f*
- **Resistance ranges:** 2mΩ to 20MΩ
- Dissipation factor measurement
- Size: 6.7"L x 3.3"W x 1.4"D
- Weight: 1.1 lbs.
- One-year warranty

Includes: Test-leads and 9V battery

Part No.	Description	1	10	25
127538	LCR meter	$149.95	$135.95	$122.95

BK PRECISION Analog Multimeter



- AC/DC voltage to 500V
- DC current to 250mA
- Resistance to 1MΩ
- 9V & 1.5V battery test
- Easy-to-use manual range selection
- Decibel to 56dB
- Size: 3.2"W x 1.2"D x 4.7"H • One-year warranty

Includes: AA battery

Part No.	Product No.	Description	1	10
160506	BK117B	Analog meter	$22.95	$20.95

BelMERIT Digital Clamp Meter



- 3¾-digit; max. reading of 3999
- Current ranges: 399.9A, 600A (AC)
- Voltage ranges: 750VAC, 399.9VDC
- Resistance range: 3999Ω
- 0.5" digit height
- Tear drop jaws 1.3" (32mm) opening for ease of use
- Data hold and peak hold functions
- Electronic overload protection up to 500VAC
- Size: 8.0"L x 3.3"W x 1.5"D • Weight: 1.0 lb.
- One-year manufacturer's warranty

Includes: Standard 9V battery test leads, manual and case

Part No.	Description	1	10
140644	Digital clamp meter	$79.95	$71.95

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

440 Scope + DMM + Counter

Six Units in One!



- 4,000 count True RMS DMM
- 1MHz bandwidth oscilloscope
- Component test • Trend mode
- Frequency counter • Logic test
- 20MHz sampling rate
- Trend mode allows recording of sine waves for a period of time

Part No.	Description	1	5
160805	Digital oscilloscope	$349.95	$339.95
168330	RS232 software and cable	69.95	62.95
170499	Rubber boot	19.95	17.95

Digital Handheld 5MHz Sampling Rate Oscilloscope

velleman



- 5MHz for repetitive signals; 0.5MHz for single shot events
- Input impedance: 1MΩ/20pF
- Maximum input voltage: 100V peak (AC + DC)
- Input coupling: DC, AC, and GND (GND for auto zero reference)
- LCD graphics display: 64 x 128 pixels (64 x 96 pixels for signal)
- High contrast LCD display w/ 3.3" viewing angle
- Vertical resolution: 8-bit (6-bit for LCD)
- Timebase range: 2µs to 20s/div
- Input sensitivity: 5mV to 20V/div
- Trigger mode: run; normal; once, and ± slope
- True RMS and dB measurements • Screen hold
- Recommend 9VDC @ 300mA power supply (P/N 133891, pg 68) • Linearity: ±1 bit
- Batteries not included, recommend P/N 32627 or P/N 151087, pg 83
- Size: 8.7"L x 4.2"W x 1.5"H • Weight: 1.6 lbs.

Includes: Insulated BNC to alligator clip measurement probes and case

Part No.	Description	1	5
168823	5MHz scope (Model HPS5)	$199.95	$179.95

Handheld 20MHz Digital Oscilloscope/DMM/ Counter/Logic Analyzer

METEX®



(Shown w/ logic probe P/N 162974 – not included)

- 4-in-1 test equipment: digital oscilloscope, DMM, frequency counter and logic analyzer
- Easy-to-read LCD display
- **Oscilloscope**: 2-channel input, 5mV-2V/div; DC-20MHz(-3dB); 50ns - 0.5us/div
- **Logic analyzer:** 8 inputs; 1.4V threshold level; 35VDC max. input; 50ns min. pulse width
- **Digital multimeter:** 3¼ digit (max 3999 counts); 40 segment analog bargraph; AC/DC voltage from 400mV-600V; AC current from 40µA-400mA; DC current from 400µA-400mA; resistance from 400Ω-40MΩ; continuity and diode testing
- **Frequency counter:** 5Hz-20MHz; 5 digit max.; autoranging; AC/DC/DC input coupling; ±10ppm accuracy; 35Vrms/42V-P/60VDC max. input
- Oscilloscope probes use P/N 22891/66149/ 140687, pg 125 • One-year warranty
- Size: (unit) 10.0"L x 5.0"W x 2.0"H • Wt.: 9.2 lbs.

Includes: Manual, 5VDC @ 3A power supply, power cord, DMM test leads, holster and case

Part No.	Description	1	5
162430	20MHz digital scope	$799.95	$749.95
162974	Logic probe	59.95	53.95
163141	Rechargeable battery (spare)	59.95	53.95
162966	RS232 cable and software	24.95	22.49

EZ DIGITAL

20MHz Dual Trace Oscilloscope



- 6" rectangular high-resolution blue CRT with internal graticule & scale
- Vertical deflection: 5mV/div to 5V/div in 10 calibrated steps
- Horizontal deflection: 0.2µs/div to 0.2s/div in 19 calibrated steps, 1-2-5 sequence
- Max signal input voltage: 250V (DC and peak AC)
- ADD function measures sum of two signals
- Input voltage: 98-125VAC @ 1A, 198-225VAC @ 0.5A, 50/60Hz, 45W
- Size: 16.4"L x 12.6"W x 5.3"H • Weight: 20.8 lbs.
- Two-year manufacturer's warranty

Includes: Two 40MHz probes (X1 & X10), power cord, manual, and block diagram

Part No.	Product No.	Description	1	5
136098	OS5020	20MHz scope	$399.95	$379.95

EZ DIGITAL

20MHz Dual Trace Oscilloscope with 1MHz Function Generator



- Basic specs same as OS5020 (above)
- Built-in1MHz function generator
- Frequency range: 0.1Hz to 1MHz (7 ranges)
- Output waveform: sine, triangle, square, TTL pulse
- Output impedance: 50Ω • Output voltage: 14Vp-p
- Two-year manufacturer's warranty
- Size: 12.6"L x 12.6"W x 6.8"H • Weight: 23.8 lbs.

Requirements: AC100/120/220/240V 50/60Hz-45W

Part No.	Product No.	Description	1	5
94650	OS5020G	Func. generator	$499.95	$469.95

EZ DIGITAL

100MHz Dual Trace Oscilloscope



- DC to 100MHz, 2-channel dual trace
- Signal delay with delay line
- Auto focusing according to the change of intensity
- Two-year manufacturer's warranty
- Size: 16.9"L x 12.6"W x 5.5"H
- Weight: 22.8 lbs.

Part No.	Product No.	Description	1	5
121179	OS5100	Oscilloscope	$909.95	$869.95

See page 180 for our selection of in depth books about Oscilloscopes





EZ DIGITAL

Dual Channel 100MHz Oscilloscope with 3¾-Digit Multimeter

Oscilloscope:



- 5" STN LCD backlight display
- 100MHz bandwidth, dual channel, dual digitizers
- Fast rise time and low overshoot
- Low drift low noise reduction
- RS232C programmability and communication
- Vertical axis: 8-bits; 1mV/div to 5V/div in 12 steps; 10Hz low frequency limit in AC couple; input impedance @ approximately 1MΩ in parallel with 25pF; 42Vpeak (DC + peak AC) max. safe input voltage
- Horizontal axis: 2K words/CH acquisition memory; 5ns/div to 5sec/div sweep time on equivalent sampling; 5ns/div to 0.5us/div sweep time on real sampling

4000 Count 3¾-Digit Digital Multimeter

- AC/DC voltage: 400mV to 400V in 4 ranges with resolution of 0.1mV to 100mV
- Resistance: 400Ω to 4MΩ in 5 ranges with resolution of 0.1Ω to 1kΩ
- Diode and continuity testing
- Min./Max./Relative/Hold functions

Includes: Serial cable, software, oscilloscope probes, multimeter probes with detachable alligator clips and desktop power supply

Part No.	Product No.	Wt. (lbs.)	1	5
190924	OS310N	8.6	$1499.95	$1375.95

EZ DIGITAL

100MHz Oscilloscope

2 Channel, 4 Trace



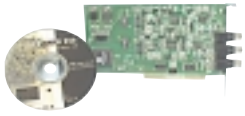
- DC to 100MHz bandwidth
- 6" rectangular CRT with internal graticule
- Auto set, readout cursor, delay sweep, hold-off functions
- Z-axis intensity modulation: DC to 2MHz bandwidth; 30VDC + peak AC max. input voltage
- Vertical deflection factor: 2mV/div to 5V/div in 11 calibrated steps
- Horizontal time base A/B deflection: 50ns/div to 0.5s/div in 22 calibrated steps
- Input coupling: AC, GND, DC
- Rise time: 3.5ns or less
- Input voltage: 90-250VAC @ 48-440Hz

Part No.	Product No.	Wt. (lbs.)	1	5
190932	OS5100RB	17.6	$1199.95	$1075.95

ISA Digital Oscilloscope Card for Windows® 95

Protek

Dual Channel PC Based DS0



- 20MS/s sample rate per channel
- 8-bit resolution
- Amplitude: max. 300V + pk
- Auto setup: 30Hz to 2MHz, 35V p-p max.
- Impedance: 1MΩ 25pF
- External trigger coupling: AC
- Trigger levels: ±3 div • Trigger type: analog
- Time range: 50ns/div to 0.5s/div 1-2-5 22 step
- Input range: 50mV/div to 5V/div 1-2-5 7 step
- One-year warranty

System requirements: IBM PC 486, Pentium® or compatible; 8MB of RAM; VGA graphics card and monitor and 8-bit ISA slot

Includes: CD-ROM software, driver, manual & probes

Part No.	Description	1	5
153568	Oscilloscope card	$239.95	$229.95

60MHz Modular Oscilloscope Probe



- Hook and pointed probe
- Alligator clip ground wire
- Max: 600VDC
- BNC male connector
- 5' cable

Attenuation	x1	x10
Bandwidth (1dB)	3MHz	40MHz
Bandwidth (3dB)	6MHz	60MHz
Impedance (R/C)*	1MΩ /180pF	10MΩ /22pF

** with oscilloscope input 30pF*

Part No.	Product No.	1	10	50
22891	LF101E	$20.95	$18.95	$16.95

100MHz Modular Oscilloscope Probe



- Hook and pointed probe
- Alligator clip ground wire
- Max: 600VDC
- BNC male connector
- 5' cable

Attenuation	x1	x10
Bandwidth (1dB)	3MHz	60MHz
Bandwidth (3dB)	6MHz	100MHz
Impedance (R/C)**	1MΩ /150pF	10MΩ /14pF

*** with oscilloscope input 20pF*

Part No.	Product No.	1	10	50
66149	LF210A	$31.95	$27.95	$24.95

PROBEMASTER 150MHz Oscilloscope Probe

Designed for use with Tektronix and Hewlett Packard oscilloscopes.



- 3 position switch: 1X, ref, 10X
- Bandwidth @ 3dB: 10MHz (X1); 150MHz (X10)
- Loading: 57pF, 1MegΩ (X1); 15pF, 10MegΩ (X10)
- Low-resistance gold contacts • 7-piece kit
- Cord length: 5'

Part No.	Product No.	1	10	50
174473	4901-02	$44.95	$39.95	$36.95

250MHz Oscilloscope Probe



- Hook and pointed probe
- Alligator clip ground wire
- Max: 600VDC
- BNC male connector
- 5' cable

Includes: Extra probes

Attenuation	x1	x10
Bandwidth (1dB)	3MHz	150MHz
Bandwidth (3dB)	6MHz	250MHz
Impedance (R/C)***	1MΩ /150pF	10MΩ /14pF

**** with oscilloscope input 20pF*

Part No.	Product No.	1	10	25
140687	LF290	$41.95	$37.95	$33.95

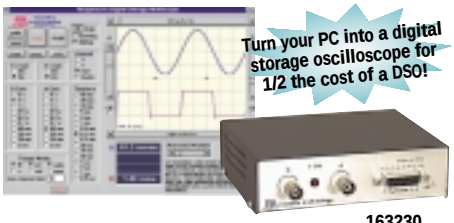
Pomona® Oscilloscope Probe Set



- Complete accessory kit included
- 48" leads
- Attenuation: X1/X10
- Bandwidth: 15/100MHz (-3dB)
- Risetime: 23.33/3.5ns
- Input resistance: 1/10MΩ • Capacitance: 64/10.5pF
- Compensation range: NA/10~60pF

Part No.	Product No.	Description	1	10
156451	4550B	Probe kit	$49.95	$44.95

PC-MultiScope 20MHz and 100MHz Dual Channel



163230

- Chart recorder and FFT mode
- One-year warranty

mission technology

Includes: Parallel port cable, AC adapter, alligator clip probe, Windows® 3.1/95/98 software

142834: PC-MultiScope 2
- 20MHz sampling; dual channel
- 1mV to 10V per div.; 10MHz bandwidth; ext. trigger
- Triple power supply; 5VDC @ 500mA and ±0-7VDC @ 150mA
- Size: 5.7"L x 6.7"W x 1.8"H • Weight: 3.8 lbs.

163230: PC-MultiScope 3, "e-LAB"
- 100MHz sampling; dual channel
- 5mV to 5V per div.; 20MHz bandwidth; ext. trigger
- 0-4MHz Sine and Square wave signal generator
- Triple power supply; 5VDC @ 500mA and ±0-8VDC @ 250mA
- Size: 4.3"L x 5.0"W x 1.5"H • Weight: 3.8 lbs.

Part No.	Description	1	10
142834	PC-MultiScope 2 (20MHz)	$349.95	$319.95
163230	PC-MultiScope 3 (100MHz)	549.95	499.95

Handheld 20 MHz 2 Channel Oscilloscope

Model 460



NEW

- Bandwidth: 20 MHz • 2 channels
- RS-232: optically isolated output
- Sampling rate: 25 MS/s
- DC/AC voltage ranges (CH1/CH2): 400mV to 600V
- DC/AC voltage resolution ranges: 0.1mV to 1V
- Frequency ranges (CH1/CH2): 100Hz to 20MHz
- Frequency resolution ranges 0.01Hz to 10KHz
- Resistance ranges (CH1 only): 400Ω to 20MΩ
- Resistance resolution ranges: 0.1Ω to 10KΩ
- 4,000 count autoranging DMM
- Continuity and diode test
- Waveform: vertical 8 divisions of 20 pixels
- Backlight • Handheld
- 3" x 3" LCD screen • Adjustable contrast
- Meets Cat III 600V • Three year warranty

Includes: AC charger, 2 banana to BNC adapters, 0-60 MHz oscilloscope probe, high performance test leads and manual

Part No.	Description	1	10
195231	460 Oscilloscope	$895.95	$805.95

Digital Light Meter



- Measures in Lux and footcandle ranges
- Range: Lux – 0 - 50,000 Lux (3 ranges); footcandle – 0 - 5,000 Fc (3 ranges)
- Analog output connectors for external recording
- Separate light sensor for optimum location sampling • 0.5" digit height
- Dimensions (sensor probe): 3.2"L x 2.2"W x 0.5"H
- Weight: 0.9 lbs. • One-year warranty

Part No.	Description	1	10
131764	Digital light meter	$99.95	$89.95

Same business day shipping until 6:00 p.m. EST. *See page 182 for Zone Chart*



Dual Digital Thermometer & Probe

123861: 2 channel Thermometer



123861

- Measurement range: -50 to 1300˚C (-58 to 1999˚F)
- Resolution: 1˚C, 1˚F
- Max. voltage at thermocouple input: 60VDC, 24VAC
- 0.4" digit height
- For use with any K-type thermocouple as temperature sensor, recommend P/N 123879 • One-year warranty

Includes: 9V battery

123879: Probe
- Type K thermocouple
- Temp. range: -58˚F (-50˚C) to 392˚F (200˚C)
- Welded exposed 3' thermocouple 0.03" diameter

Part No.	Description	1	10
123861	Digital thermometer	$59.95	$53.95
123879	Temperature probe	11.95	10.49

EXTECH Mini Infrared Thermometer



- Measures -4˚F to 608˚F (320˚C) without contact
- Resolution of ˚1
- ˚F and ˚C selectable
- Large backlit display (0.36" digit height)
- Built-in laser pointer for better aim
- Fixed emissivity covers 90% of surface applications
- Narrow field of view – distance at 6" measures 1" target • Auto data hold

Includes: 9V battery

Part No.	Description	1	10
170421	Mini infrared thermometer	$109.95	$99.95

Infrared and T/C Thermometer



- Precision for direct or non-contact temperature measurement
- Non-contact temperature range: -10˚C to 350˚C (14˚F to 662˚F)
- Built-in K-type thermocouple connector temperature range -50˚ to 1230˚C (recommend P/N 123879, above)
- Non-contact measurement distance: 40"
- 0.1˚ resolution for infrared
- Easy readout 0.4" height LCD display
- Celsius and fahrenheit display unit by push-button
- Microprocessor circuit assures maximum possible accuracy, special functions and features
- Records maximum and minimum readings on recall
- Data hold • Auto shut-off
- One-year warranty

SALE

Requires: 9V battery (recommend P/N 151095, pg 83)

Includes: Manual and padded plastic case

Part No.	Description	1	10
153584	Infrared thermometer	$149.95	$139.95

Click on www.jameco.com

Join our "Live Wire" today to receive e-mail alerts on New products and Special Promotions

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

Sine/Square Wave Audio Generator

BK PRECISION

20Hz-150kHz

Small, convenient and extremely portable, this little audio generator can be used to test telco and audio equipment.



- Sine and square wave generator
- 20Hz to 150kHz in 46 steps
- Low distortion R-C oscillator
- Variable output control
- Low battery indicator • Z out = 600Ω
- One-year manufacturer's warranty
- Size: 5.9"L x 3.2"W x 0.8"H • Weight: 0.7 lbs.

Includes: 9VDC battery

Part No.	Product No.	Description	1	10
166334	BK3001	Audio generator	$86.95	$78.95

2MHz Function Generator



- Frequency range: 0.02Hz to 2MHz
- Waveforms: sine, triangle, square, ramp, TTL pulse, skewed sine
- Variable waveform/duty cycle symmetry
- Linear sweep control from 1:1 to 100:1
- DC offset voltage from 0 to ±10V; can be superimposed to output waveform
- Output voltage: 20Vp-p (open circuit), 10Vp-p (into 50Ω)
- One-year manufacturer's warranty
- Size: 10.0"L x 8.0"W x 3.0"H • Weight: 5.4 lbs.

Requires: 110V/220V 50/60Hz, 20W

Includes: Power cord, BNC to clip cable, fuse and manual

Part No.	Product No.	1	5	10
66069	FG8002	$189.95	$179.95	$169.95

5MHz Function Generator

BK PRECISION

Unit has been engineered for high reliability and user operating convenience.



- Waveforms: sine, square, triangle, TTL/CMOS output, and ramp • 0.5 to 5MHz
- 100% DC offset • Z out = 50Ω
- Variable duty cycle • Digital display
- Coarse and fine tuning • Two-year warranty
- Size: 10.4"W x 11.7"D x 3.4"H • Weight: 6.2 lbs.

Part No.	Product No.	Description	1	5
160469	BK4011A	0.5 to 5MHz	$314.95	$299.95

2MHz Sweep Function Generator with 6-Digit Frequency Counter



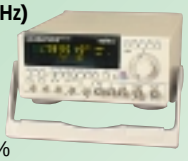
- Frequency range: 0.02Hz to 2MHz in 7 ranges
- Output impedance: 50Ω ±5%
- Frequency counter range: 2Hz to 50MHz
- Maximum input voltage: 250Vp-p
- One-year warranty
- Input voltage: 115/230VAC @ 50/60Hz **(switch selectable)**
- Size: 10.3"L x 10.0"W x 3.2"H • Weight: 5.8 lbs.

Includes: Probe and detachable power cord

Part No.	Product No.	Description	1	5
94676	FG7002C	Function gen.	$329.95	$296.95

METEX® 2MHz Function Generator & 1.5GHz Frequency Counter

Function Generator: (2Hz - 2MHz)



- Wave forms: sine, square, triangle, skewed, ramp, pulse and TTL level square
- Frequency: 2Hz to 2MHz in 7 ranges
- Output impedance: 50Ω ±10%
- Output amplitude: 2 to 20Vpp at open load; 1 to 10Vpp at 50Ω load
- Offset variable range (max.): ±10VDC at no load
- Frequency sweep time: 20ms to 2s

Frequency Counter: (5Hz - 1500MHz)

- Measuring range: channel A – 5Hz to 100MHz; channel C – 100MHz to 1500MHz
- Input sensitivity: 30mVRMS sinewave for 100MHz to 1300MHz; 70mVRMS for 1300MHz to 1500MHz
- Max. input voltage: channel A – 250Vp-p; channel C – 3Vp-p • Time base switchable
- Input impedance: channel A, 1MΩ; channel C, 50Ω
- Resolution: 100MHz or less, 1 to 100Hz; 100MHz or more, 0.1 to 10Hz
- Size: 11.0"L x 8.2"W x 3.7"H • Weight: 13.4 lbs.

Includes: Coax and power cable, manual and software

Part No.	Description	1	5
166844	Function generator/counter	$299.95	$269.95

METEX® 2MHz Function Generator & 2.7GHz Frequency Counter

Function Generator: (2Hz - 2MHz)

NEW



- Wave forms: sine, square, triangle, skewed, ramp, pulse and TTL level square
- Frequency: 2Hz to 2MHz in 7 ranges
- Output impedance: 50Ω ±10%
- Output amplitude: 2 to 20Vpp at open load;1 to 10Vpp at 50Ω load
- Offset variable range (max.): ±10VDC at open load
- Frequency sweep time: 20ms to 2s

Frequency Counter: (5Hz - 2700MHz)

- Measuring range: channel A – 1Hz to 20MHz; channel B – 20MHz to 2.7GHz
- Input sensitivity: channel A – 20mVRMS sinewave or 100mVp-p; channel B – 40mVRMS for 20MHz to 1.3GHz; 70mVRMS for 1.3GHz to 2.7GHz
- Max. input voltage: channel A – 35Vp-p; channel B – 3Vp-p
- Input impedance: channel A, 1MΩ; channel B, 50Ω
- Size: 11.0"L x 8.2"W x 3.7"H • Weight: 13.4 lbs.

Includes: Coax and power cable, manual and software

Part No.	Description	1	10
192671	Function generator/counter	$299.95	$269.95

METEX® 4-in-1 Universal System

With Function Generator, Universal Counter, DC Power Supply and Digital Multimeter



- **Function generator** capable of generating seven forms of waves (sine, square, triangle, skewed sine, ramp, pulse, and TTL square wave) in seven frequency ranges from 0.2Hz to 2MHz
- **Universal counter** capable of measuring frequency ranges from 5Hz to 1.3GHz
- **DC power supply** capable of generating 5V @ 2A, 15V @ 1A fixed and 0 to 30V @ 0 to 2A variable
- **Digital multimeter** capable of measuring DC voltage (400mV to 100V), AC voltage (400mV to 750V), DC/AC current (40mA to 20A), resistance (400Ω to 40MΩ), capacitance (4nF to 400μF) and forward resistance of a semiconductor junction in kΩ
- One-year warranty
- Size: 14.5"W x 14.0"D x 7.0"H • Weight: 37 lbs.

Includes: Manual, cables and software

Part No.	Product No.	Description	1	5
160864	MS9150	4-in-1 univ. sys.	$549.95	$499.95

2-Channel 1.5GHz Frequency Counter



- Totalize RPM, period
- Gate time: 0.01s, 0.1s, 1s, 10s
- 9-digit green LED display
- Input power: AC 110V/220V ±10%, 50/60Hz
- One-year warranty
- Size: 10.3"L x 10.0"W x 3.2"H • Weight: 5.3 lbs.

Channel	Frequency Range	Resolution
A	0.1Hz-150MHz	0.1nHz-10kHz
B	50MHz-1.5GHz	0.1Hz-100kHz

Includes: Fuse, manual and BNC cable

Part No.	Product No.	Description	1	5
55790	FC7150	Freq. counter	$299.95	$259.95

Order 24/7, 365 with 99.7% Availability

HD1650B 100MHz Logic Analyzer

While Supplies Last



- 80 channels of 35MHz state/ 100MHz timing
- Configurable analyzer: one state/ one timing; two state
- State sequency: 8 levels
- Broad support for microprocessors, busses and interfaces

Reconditioned

- Memory: 1kbit/channel • 90-day warranty
- Size: 16.6"W x 14.0"D x 7.7"H • Weight: 32.0 lbs.

Includes: Manuals and accessories

Part No.	Product No.	Price
156304	HP1650B	$2595.95

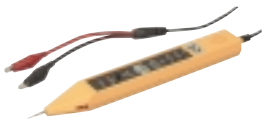
17MHz Logic Probe



- Max input frequency: 17MHz
- Minimum pulse width: 30ns
- Input impedance: 1MΩ
- Pulse flash time: 500ms
- Audible tones for high and low
- Power supply protection: ±20V
- TTL threshold: (Lo) 0.8V ±0.2V, (Hi) 2.3V ±0.2V
- CMOS threshold: (Lo) 30% VCC, (Hi) 70% VCC
- Size: 7.7"L x 1.0"W x 0.6"H

Part No.	Description	1	10	25
149930	Logic probe	$32.95	$29.95	$26.95

Logic Pulser



- Compatible with TTL, DTL and CMOS ICs
- 1MΩ sync input impedance
- "One shot" or continuous 5Hz train pulse
- Pulse repetition rate: 0.5pps/400pps
- Pulse width output at 100mA load: 10μs
- Pulse mode output current: 10mA
- Square wave current output: 5mA
- Size: 7.8"L x 1.0"W x 0.6"H

Part No.	Description	1	10	25
24601	Logic pulser	$19.95	$17.95	$15.95

Same business day shipping until 6:00 p.m. EST. See page 182 for Zone Chart



Mini DC/AC Current Clamp Meter/Multimeter



- Bright 1/2" LCD display with DATA HOLD
- 0.5" digit height
- Compatible with P/N 162325 (below)
- Size: 7.1"L x 1.9"W x 1.4"H
- Weight: 0.9 lbs.
- One-year warranty

ACA*	20A, 200A	±1.2% + 5d
DCA	200A	±1.2% + 5d
ACV*	500V	±1.0% + 2d
DCV	200V	±0.8% + 1d
Resistance	200Ω	±1.2% + 1d
*Frequency Response		40-400Hz
Zero Adjust	External knob for DCA	

Requires: 9V battery not included (P/N 151095, pg 83)

Includes: Test leads, manual and case

Part No.	Description	1	10
115756	Mini DC/AC clamp meter	$119.95	$107.95

High Voltage AC/DC Test Probe



- Maximum voltages: DC: 40kV, AC: 40kV peak, 28kVRMS
- Accuracy: DC: ±1.5%, AC: ±5%
- Meter requires 10MΩ input impedance
- Input/output impedance: 1,000MΩ/1.1MΩ
- Cable length: 39" • Probe length: 14"
- Weight: 0.8 lbs.

Part No.	Description	1	10
132290	High voltage test probe	$89.95	$80.95

TRIPLETT AC Voltage Detector



- Test for the presence of AC voltage on outlets, circuit breakers, extension cords, light switches, power tools and AC motors
- Non-contact voltage probe • AC ranges: 50V–600V
- Visual and audible alerts • Pocket clip
- Size: 5.4"L x 0.65"W x 0.60"H

Part No.	Description	1	10
154907	AC voltage detector	$21.95	$19.95

AC/DC Circuit Tester

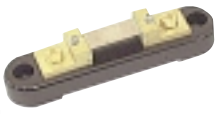
This tester will help you determine if a typical 3 wire outlet is 110V or 220V. Light will glow if neutral and hot lines are probed. A brighter glow will let you know if the outlet is 220V.



- Red and black probe for hot and neutral
- Voltage ranges:90V – 800V
- UL/CUL approved
- Size: (unit) 2.7"L x 0.7"W x 0.5" Thick

Part No.	Description	1	10	50
189309	Circuit tester	$2.95	$2.49	$1.95

50mV/50A Current Shunt

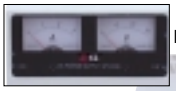


- Current ranges: 0 to 50A
- Accuracy: 0.8% ±0.2mV
- Output ratio: 1mV/1A
- Max. current: 100A
- Size: 5.3"L x 1.2"W x 1.4"H

Part No.	Description	1	10	25
162309	Current shunt	$24.95	$22.49	$19.95

90 Watt Digital and Analog DC Power Supplies

30VDC @ 3 Amps



101928 Meter Face



121152

- Constant current and constant voltage operation
- Can be used for positive or negative source
- Overload protection circuit
- Input voltage: 100-240VAC @ 50/60Hz
- Size: 5.2"W x 5.6"H x 10.0"D
- One-year warranty

Part No.	Product No.	Desc.	Wt. (lbs.)	1	10
101928	GP4303A	Analog DC	10.9	$199.95	$179.95
121152	GP4303D	Digital DC	10.7	189.95	169.95

150 Watt Benchtop Linear Power Supply

15VDC @ 10A



- Output voltage: 2VDC to 15VDC
- Output current: 15A max.
- Constant voltage and current operation
- Color-coded terminals for positive and negative terminals, voltage adjustment knob
- Over-voltage, over-current, short-circuit protection
- Cigarette lighter output current plug
- LED indicator for power and warning
- Current and voltage panel meter • Built-in fan
- Input voltage: 110VAC @ 50Hz
- Size: 5.7"L x 6.2"W x 4.0"H • Wt.: 12.0 lbs.

Part No.	Product No.	1	10	25
175265	DPS150A	$129.95	$116.95	$104.95

150 Watt Power Benchtop Power Supply

50VDC @ 3A



- Adjustable voltage/current outputs
- Constant voltage & current operation
- Color-coded terminals for ground, positive and negative terminals
- 3A @ 115V fuse
- Color-coded adjustment knobs for voltage, current and fine adjustment
- Input voltage: 110VAC @ 60Hz
- Color: dark gray • One-year warranty
- Size: 9.0"L x 4.75"W x 7.5"H • Weight: 12.3 lbs.

Part No.	Description	1	10	25
163723	50VDC @ 3A	$134.95	$119.95	$110.95

150 Watt Digital Benchtop Power Supply

30VDC @ 5A



- Adjustable voltage/current outputs
- Constant voltage and current operation
- LED displays for both current and voltage
- Coarse and fine adjustment knobs for current and voltage
- Color-coded terminals for positive, negative and ground connections • 2A @ 250V fuse
- Dual digital display • One-year warranty
- Input voltage: 110/220VAC @ 50/60Hz **(switch selectable)**
- Size: 5.4"W x 10.7"D x 6.0"H • Weight: 13.8 lbs.

Part No.	Description	1	10	25
153242	30VDC @ 5A	$199.95	$179.95	$159.95

190 Watt Triple Output Power Supply

Digital Display



- **Output voltage:**
  0 to +30VDC @ 3A
  0 to -30VDC @ 3A
  +5VDC @ 2A
- Ripple voltage: less than 3mVp-p
- Volt and current meter: LED display (±1% + 1 digit)
- Overload protection circuit
- Input voltage: 100VAC-230VAC @ 50/60Hz **(jumper selectable)**
- Weight: 23 lbs. • One-year warranty

Includes: Manual and spare fuse

Part No.	Product No.	Description	1	5
157518	GP4303TP	Power supply	$549.95	$499.95

225 Watt Benchtop Switching Power Supply

15VDC @ 15A



- Output voltage: 9VDC to 15VDC
- Output current: 25A max. (22A continuous @ 13.8VDC)
- Constant voltage and current operation
- Over-voltage protection @ 16.5V
- Short-circuit protection @ 27.5A
- Color-coded adjustment knob and output terminals for voltage
- Cigarette lighter plug for current output
- Power and fan LED indicator • Built-in fan
- Voltage and current panel meter
- Input voltage: 110VAC/220VAC @ 47-63Hz **(switchable)**
- Size: 5.6"L x 6.2"W x 4.0"H • Weight: 3.8 lbs.

Part No.	Product No.	1	10	25
175257	SPS250A	$139.95	$124.95	$109.95

250 Watt Benchtop Power Supply

50VDC @ 5A



- Adjustable voltage/current outputs
- Constant voltage and current operation
- Color-coded adjustment knobs for voltage, current, and fine tuning
- Color-coded terminals for ground, positive, negative
- 5A @ 250V fuse • Isolated ground
- Input voltage: 220VAC @ 50-60Hz
- Color: dark gray
- Size: 4.9"L x 7.7"W x 6.7"H • Weight: 13.8 lbs.

Part No.	Product No.	1	10	25
175249	DPS5050	$159.95	$143.95	$130.95

Jameco offers unsurpassed Technical Support for all your difficult questions or log onto www.jameco.com for our Complete Library of Technical Documents

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

Alligator Clip Leads (10)



- 24 AWG wire
- Color-coded, 15" long
- Insulated alligator clip on each end
- 10 per pkg. in assorted colors

Part No.	Description	1	10	100	1000
10444	Alligator leads	$2.95	$2.75	$2.49	$2.29

Insulated Alligator Clips (2)



- Color-coded
- Insulated barrel
- Jaw opening .375"-0.5"
- Accepts standard banana connector
- Solder strap and pre-drilled hole for 6-32 self threading screw • Size: 2.3"L x 0.5"W

Includes: One red and one black clip

Part No.	Description	1	10	100	1000
70990	Alligator clips	$.49	$.39	$.35	$.29

Mini-Clip Test Leads (5)



These spring loaded mini-clips hook easily to IC pins for testing.

- Set of five: red, blue, green, black and yellow • 14"L; clips on both ends
- 26 AWG to 300V CSA/UL approved wire

Part No.	Description	1	10	100	1000
135298	Mini test leads	$10.49	$9.49	$8.49	$7.49

Mini Test Clips (2)


114817

- Two lengths

Includes: One black and one red hooked probe clip

Part No.	Description	1	10	100
114809	1.75" mini test clips	$1.49	$1.19	$1.09
114817	3.5" mini test clips	1.75	1.39	1.25

19/16" Banana Plugs (2)



- Set-screw connection
- Standard banana spring plug
- Additional 6-32 threaded hole for connection reliability
- Insulating sleeve is threaded to banana plug body
- .1875" lead opening • Size: 1.6"L x 0.4"Dia.

Includes: One red and one black plug

Part No.	Description	1	10	100	1000
72194	Banana plugs	$1.39	$1.25	$1.05	$.89

21/4" Banana Plugs (2)



- Nine rib spring plug
- Will accept up to 0.1" dia. wire
- Set-screw connection
- Each plug equipped with hole for interconnection
- Size: 2.3"L x 0.3"W
- Insulating sleeve fits snugly over copper post

Includes: One red and one black connector

Part No.	Description	1	10	100
137525	Banana plugs	$2.95	$2.49	$2.29

Double Banana Plugs


125217

- Dual gold-plated female banana plugs
- Stackable

Part No.	Description	1	10	100
125209	Blk banana connector	$1.95	$1.75	$1.49
125217	Red banana connector	1.95	1.49	1.19

Micro Test Clip



- One piece per package

Part No.	Description	1	10	100	1000
153162	1.6" micro test clip	$.75	$.59	$.39	$.29

BNC to Clip Test Cables


11421 11463

BNC connectors are designed for signal frequencies into the gigahertz range, making them ideal for communications, video and test equipment.

- Micro-clip or mini-clip • Length: 39"

Part No.	Description	1	10	50	100
11421	Micro-clip RG174	$3.69	$3.29	$2.85	$2.49
11463	Mini-clip RG174	3.95	3.49	2.95	2.65

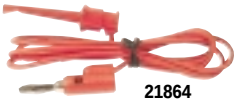
Double-Banana Plug to Alligator Clips Test Cable



- Red and black rubber boot
- 4" lead wire • Length: 3'

Part No.	Description	1	10	50	100
107422	Test cable	$3.95	$3.49	$2.95	$2.49

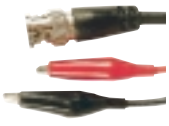
Mini-Clip to Banana Test Cables


21864

- Available in black or red
- Plunger-type action
- Positive connection that won't disconnect from components
- Banana plug connection on opposite end
- Length: 3.5' • 20 AWG insulated wire

Part No.	Description	1	10	100
21856	Black test cable	$3.49	$2.95	$2.49
21864	Red test cable	3.49	2.95	2.49

BNC to Alligator Clip Test Cable



Permits BNC assembly to be used as a test cable.

- Upper connection: two alligator clips – red 5.5" 22AWG wire; black 9" 22AWG wire
- Lower connection: 23" RG/58U cable with BNC connector

Part No.	Description	1	10	100	1000
11383	BNC cable	$3.29	$2.89	$2.49	$2.29

BNC to Standard Double Banana Plugs


11439 125225

Permits BNC cables to be used with equipment having banana jacks. Lower connection: BNC; upper connection: double banana plug on .750" centers. Cross holes .166" diameter in body provide side stack-up connections.

Part No.	Description	1	10	100
11439	BNC banana plug (F)	$3.49	$3.19	$2.69
125225	BNC banana plug (M)	3.95	3.49	2.95

Universal Test Lead Kit


SALE

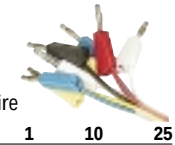
Includes: 3 ft. black/red cables, 4.5" black/red insulated test probes, 0.8" needle probes, spade terminals, 2 sets of 4 pieces each red/black insulated alligator clips and banana plug

Part No.	Description	1	10	100
168516	Universal kit	$7.95	$5.90	$4.76

99.7% Availability

Jameco Stocks Over 6,000 Quality Products

Banana to Banana Test Leads (10)



- Stackable
- Color coded; 2 each red, yellow, blue, black, white
- 9.8" long
- 10 per package • 18 AWG wire

Part No.	Description	1	10	25
77841	Test leads	$20.95	$18.95	$16.95

Protected Banana Style Multi-Meter Test Probes (2)



- Threaded/pointed test tip • Black and red
- 18 AWG wire • 42" long • 2 per package

Part No.	Description	1	10	25
77737	Protected probes	$5.95	$5.35	$4.95

Standard Banana Style Multi-Meter Test Probes (2)



- Black and red
- 18 AWG wire • 42" long • 2 per package

Part No.	Description	1	10	25
77745	Std. banana probes	$5.95	$5.35	$4.95

Stackable Banana Style Multi-Meter Test Probes (2)


SALE

- Black and red
- 18 AWG wire • 42" long • 2 per package

Part No.	Description	1	10	25
77770	Stackable probes	$3.69	$3.29	$2.96

Breadboard Pin to Breadboard Pin Test Leads (20)



- 4 each red, yellow, blue, black, white
- 5.9" long
- 20 per package • 20 AWG wire

Part No.	Description	1	10	25
77825	Breadboard pin leads	$11.95	$10.95	$9.95

Surface Mount Test Clips

Color Coded



- Can access 0.3mm pitch IC leads
- Stackable side by side
- High reliability: gold-plated hook and contact
- High durability: barrel extension is fluorine-resin coated
- Wire length: 3" test clip wires
- Clip/wire color: 2 each black, red, green, yellow, blue, gray

Includes: 3" ground wire with #8 spade terminal

Part No.	Description	1	10
170528	SMD nano clips (12)	$109.95	$99.95

10-Slot Rack for Test Leads



- Useful for organizing test leads and small tools
- 10 slots
- Color: black
- Size: 11" long

Part No.	Description	1	10	25
185316	Test lead rack	$5.95	$5.35	$4.79

PROBE MASTER Micro-tip Probe Test Leads



- 23K gold tips
- Silicon wire
- 1000V rated
- Length: 3'3"
- Spring loaded micro tip
- Weight: 0.2 lbs.

Includes: 8 plunger type tips

Part No.	Description	1	10	25
174625	Micro tip test leads..	$34.95	$31.49	$28.95

Pomona® BNC Cable Assemblies


159871

- RG58 C/U 50Ω cable
- BNC male connectors
- Molded strain relief
- Length:
  P/N 159871: 36"
  P/N 159880: 60"

Part No.	Product No.	1	10	25
159871	2249-C-36	$13.95	$12.49	$10.95
159880	2249-C-60	16.95	14.95	10.95

Pomona® Replacement Probe Test Lead Set (2)



- Set of two PVC 48" long insulated leads (black/red), probe to banana plug
- Fits Fluke, HP, Tektronix, Wavetek DMMs
- Right-angle multimeter connectors

Part No.	Product No.	1	10	25
155951	5519A	$12.95	$11.49	$10.49

Pomona® Basic Electronic DMM Test Lead Kit (2)

Kit Contains 2 Each (Black/Red):



- Test probes with silicone insulated lead
- Slide-on extended tips & alligator clips
- Supplied in a reusable plastic case • 48" leads
- Fits most equipment with banana jacks

Part No.	Product No.	1	10	25
155942	5672A	$22.95	$19.95	$19.49

Pomona® Stackable Banana Test Lead Cables


159898 159901 159919

- 5000V @ 15A • 55˚C max.

159898: 36" leads, 2 mini w/ banana

- 45VAC @ 5A max.; beryllium copper contact and glass filled insulation

159901: Two 24" leads **159919:** Two 36" leads

Part No.	Prod. No.	Description	1	10	25
159898	3782-36	Mini w/ banana	$7.95	$6.95	$6.25
159901	B-24-02	Patch cord	8.95	7.95	6.95
159919	B-36-02	Patch cord	9.95	8.95	7.95

Pomona® Test Lead Holders


155985

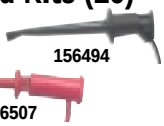
155985:
- Max cable dia.: 0.450"
- 11"L • Color: blue

155977:
- Max cable dia.: 0.320"
- 11"L • Color: black

155969:
- Max cable dia.: 0.210" • 11"L • Color: orange

Part No.	Product No.	No. of Slots	1	10	25
155985	2708B	9	$6.95	$6.25	$5.59
155977	4408	10	6.95	6.25	5.59
155969	1508	14	6.95	6.25	4.95

Pomona® Minigrabber® Test Clip Patch Cord Kits (10)


156494 156507

- One each of 10 colors: black, brown, red, orange, yellow, green, blue, violet, gray and white
- 24" leads

Part No.	Prod.No.	Description	1	10
156494	5523	Patch cord (hook)	$34.95	$31.49
156507	5521	SMD cord (jaws) ...	59.95	53.95

Pomona® BNC Male with Molded Strain Relief to Minigrabber® Test Clips



- RG 174/U, .100" O.D.
- Rating: 300 VRMS max., +50˚C (+122˚F) max.
- Strain relief: PVC molded directly to connector
- Length: 36"

Part No.	Prod.No.	Description	1	10
176954	5187-K-36	Minigrabber® ..	$19.95	$18.49

Pomona® BNC Male w/ Molded Strain Relief to Minigator® Test Clips



- RG 50C/U, .195" O.D.
- Rating: 45 VRMS max., +50˚C (+122˚F) max.
- Jaws open to .187" max.
- Length: 36"

Part No.	Prod.No.	Description	1	10
176971	4532-C-36	BNC/Minigator®	$15.95	$14.49

Pomona® Solderless Banana Plugs (2)


159863 159855 159927

- Nickel-plated • Set screws secure leads
- ABS insulation • 5000VDC @ 15A • 50˚C max.
- Color: 1 red and 1 black per pack

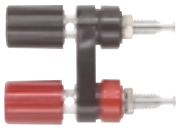
159863: Solderless with safety collar & set screw

159855: Solderless with set screw

159927: Solderless double banana plug w/ wire guide

Part No.	Product No.	1	10	25
159863	1825-02	$2.45	$2.19	$1.95
159855	1325-02.....	2.45	2.19	1.95
159927	MDP-02	3.95	3.55	3.19

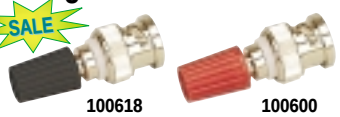
Pomona® Binding Posts with Double Mounting Base


177025

- Accepts standard banana plugs
- Material: Binding post: bright tin-plated brass; Insulation: polycarbonate
- Rating: 2500VDC, 15 amps, +115˚C (+239˚F) max.

Part No.	Prod.No.	Description	1	10
177025	4243-0	Black binding post	$4.95	$4.49
177033	4243-2	Red binding post ...	4.49	4.01

Single Binding Posts to BNC Male


SALE
100618 100600

- Binding post with captive thumb nut
- Accepts standard banana plugs
- Operating voltage: 500 VRMS
- Brass nickel plated

See page 58 for BNC Connectors

Part No.	Description	1	10	100
100618	Black binding post	$.95	$.86	$.78
100600	Red binding post	1.95	1.27	.79

BNC to Double Binding Posts – Dual Banana


125233

- Red/Black design

Part No.	Description	1	10	100
125233	BNC-female bind post	$3.25	$2.75	$2.49
99354	BNC-male bind post	3.25	2.75	2.49

Double Binding Posts – Dual Banana



- Red/Black design
- Screw-mount
- 0.72" between posts
- Size: 1.6"L x 1.4"W • Weight: 0.04 lbs.

Part No.	Description	1	10	100
125196	Screw mount bind post	$2.49	$1.95	$1.75

1" Screw-Type Binding Posts (2)



- For both wire and standard banana
- 0.16" hole for banana test leads
- Chassis mount with lock washer and nut
- Solder tab hole: 0.06" diameter
- Size: 1.0"L x 0.5"Dia. • Weight: 0.04 lbs.

Requires: 0.32" mounting hole

Includes: One red and one black insulated post

Part No.	Description	1	10	100	1000
71239	Binding posts (2)	$.99	$.85	$.69	$.59

1.75" Screw Solder Binding Posts (2)



- For both wire and standard banana
- 0.16" hole for banana test leads
- Chassis mounting
- Solder post: 0.0625" diameter
- Size: 1.8"L x 0.5"Dia. • Weight: 0.04 lbs.

Includes: One red and one black insulated post

Part No.	Description	1	10	100	1000
77690	Binding posts (2)	$1.09	$.95	$.79	$.69

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Part Number Color Code Legend
NEW SALE REFURBISHED CLOSEOUT

JAMECO

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

Universal EPROM Programmer

Parallel Port Interface



- Programs 8 and 16 bit EPROM, paged EPROM, parallel and serial EEPROM, serial EPROM, NVRAM, BPROMS, PAL, GAL, PEEL, PALCE, EPLD, and over 400 microcontrollers
- Package supports up to 48-pin DIPS
- Full support for 1.8V, 2.7V, 3.3V, and 5V devices
- Supports Intel Hex, Motorola S-record, Hex auto recognition TekHex, Extended TekHex, ASCII, Raw Binary, Octal, MOSTech, Altera POF, Altera JAM and other file formats
- Device operations: file, load, edit, save, read device, device checksum, verify data, verify signature, blank check, bit test, device erase, over-program
- Built-in IC tester for 7400/4000 series, SRAM & DRAM

Includes: 6' parallel cable, 15VAC adapter, installation guide, programmer, CD-ROM software, and 3.5" drivers

System requirements: IBM compatible PC; 8MB RAM; 6MB hard disk space; DOS version 5.0 or higher; Windows® 9X/NT4; parallel port in SPP or ECP mode; 15VAC adapter (included) or 8 AA batteries, recommend P/N 151087, pg 83 (not included)

Part No.	Description	1	10
173294	EPROM Programmer ..	$1295.95	$1195.95

Parallel Port 16KB - 32MB Universal IC Programmer & Tester

BK PRECISION



- Programs serial (E)PROM, EPLD, GAL, PEEL, microcontrollers and Flash PROM
- Auto search device select functions supports E(E)PROM and Flash memory
- Auto configures for host parallel port
- Supports JDEC, Intel Hex, Motorola S Records, Binary Tektronix Protocol and ASCII file formats
- 1500 plus device library
- Device functions: blank check, read program, verify, checksum and encryption
- Buffer features: clear, edit, fill, file load, file and file save • 48-pin universal ZIF socket
- Programming algorithms: normal, intelligent, quick pulse and flash programming
- Size: 8.8"L x 5.8"W x 1.5"H • Weight: 4.6 lbs.

Includes: Power supply, manual, 3.5" disk, IC module and cable

System requirements: IBM PC/XT/AT/386/486/Pentium®, DOS or Windows® 95/98 and open parallel port

Part No.	Model/Product No.	1	10
163184	BK846 programmer	$599.95	$549.95

Linear IC Tester



Identify and test op amps, comparators, optocouplers, transistor arrays, analog switches and voltage regulators.

- Tests 14 to 24-pin devices
- Auto feature lists type and device number • One-year warranty
- Display: 16 x 1 character LCD dot matrix
- Size: 6.4"L x 4.4"W x 1.8"H • Weight: 1.7 lbs.

Requires: Two 9V batteries, recommend P/N 151095, pg 83 (not included) or 9VDC adapter (included)

Part No.	Description	1	10
130147	Linear IC tester	$599.95	$569.95

One-Socket EPROM Programmers – 1MB and 8MB

Applied Reader Technology

RS232 Interface



82384

- ZIF socket
- Will work with any serial communication software such as Procomm Plus
- Motorola s1f, s2f and s3f can convert to binary or ASCII prior to download
- Baud rate configurable per one digit commands (no faster than 19200bps)
- Data bits: 8 • Start/Stop bits: 1
- Parity: none, even, odd, default none
- Data formats: Motorola s1f, s2f, s3f
- Flow control: none, RTS/CTS, XON/XOFF, Default RTS/CTS • Connector: DB25 (female)
- Operating voltage: 115 VAC • One-year warranty

82384:

- Programs all current EPROMs up to 512Kbits and the Intel 27CO11 (1Mbits); 2716-27512; 2804-8256; also 27CXXX and 28CXXX series
- Selectable VPP from 5V-25V • Maximum pins: 28

81699:

- Command line interpreter enables the user to enter one or more single character commands at once
- Programs EPROMs up to 8Mbits: 2716-27080; 2804-28256; also 27CXXX and 28CXXX series
- Maximum pins: 32 • Weight: 3.0 lbs.

Part No.	Description	1	10
82384	1Mbits EPROM prog.	$209.95	$190.95
81699	8Mbits EPROM prog.	239.95	216.95

Parallel Port 64KB–8MB IC Programmer/Tester

HI-LO SYSTEMS

Parallel Port Interface or Stand-Alone Unit



- 32-pin single ZIF socket
- Base unit has an LCD for programming status and function keys allowing the base to be used as a stand-alone unit
- Base unit has 2M bits of built-in memory
- Uses replaceable packs for different IC packages
- By selecting the appropriate pack, the base unit can be made to support a wide range of devices
- Can program 5V/3.3V devices
- Has the ability to "auto sense" – automatically detects the presence of an IC in the socket to begin programming
- Has a current limiter circuit to prevent the unit from electrical damage
- Verifies the ID code of a device in order to protect the IC from electrical damage
- Up to 8 different IC programming configurations can be stored in the base unit

Includes: Cable, 3.5" software, and 12VDC@1.25A power supply

System requirements: Pentium® PC or compatible; 3.5" floppy drive; parallel port in ECP/EPP mode; Windows® 95/98/2000/NT

Part No.	Description	1	10
185519	PRO-208 programmer ..	$549.95	$499.95

Click on www.jameco.com To Download Your Favorite Integrated Circuits' Specification Sheets

512K-Two Socket E(E)PROM Programmer

A compact unit that operates stand alone or interfaces with your computer via the printer port.



- Programs EPROMs up to 25V, Flash EPROMs (5V and 12V) EEPROMs, and SRAMs
- 2 sockets for master/slave operation
- Stand alone mode uses two 9V batteries (P/N 151095, pg 83, not incl.) or 12VDC @ 500mA adapter (included)
- One-year warranty
- Size: 6.4"L x 4.3"W x 2.2"H

FUNCTIONS

Stand alone mode
- Functions Set - Blank check
- IC Type select - Program
- Verify and check sum

Remote control mode
- Type - Read - Program
- Verify - Disk - Help
- Process - Parameter

Includes: Adapter, manual, cable and 3.5" disk

Part No.	Description	1	10
130155	EPROM writer	$269.95	$239.95

See page 12 for our selection of EPROM, PROM, GAL and PAL Integrated Circuits





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Serial Port 16KB-8MB Universal IC Programmer/Tester

Serial Port Interface



HI-LO SYSTEMS

- 40-pin universal ZIF socket
- Programs PROMs, EPROMs, EEPROMs, flash memory, serial PROMs, BPROMs, DSP, microcontrollers, PLD/CPLD/FPGA, PALs, GALs, PEEL, and EPLD
- Load file, read master, program, verify, auto, id check, checksum, blank check, erase, secure, protect/unprotect, edit, file transfer, function configuration, self-test functions
- IC tester function that supports CMOS, SRAM, and TTL
- Supports popular file formats including Intel HEX, Motorola S-records, binary, JEDEC fuse map, Altera POF and others • One-year warranty

Includes: Programmer, serial cable, software, user's manual, and table top power supply w/ 6' power cord

System requirements: 486, Pentium® and higher; 4MB of extended memory, serial port, 5MB of free disk space, Windows® 95/98/NT/2000 operating system and CD-ROM drive

Part No.	Description	1	10
168348	Serial univ. prog./tester	**$899.95**	**$799.95**

HI-LO SYSTEMS EPROM Eraser



- Erases all UV erasable EPROMs
- Holds a total of 16 ea. 32-pin EPROMs
- Upper and lower erasing chambers
- Special conductive foam liner eliminates static build-up
- One-year warranty
- Size: 8.5"L x 2.8"W x 2.8"H • Weight: 1.6 lbs.

Includes: AC adapter – 9VDC @ 600mA and a timer which turns eraser off at the end of the selected time period – 10 to 60 minutes

Part No.	Description	1	10
121267	EPROM eraser	**$149.95**	**$134.95**

UVP EPROM Erasers and Accessories

66042:



66042

- Erases all EPROMs
- Erases 1 chip in 7 minutes
- Special conductive foam liner eliminates static build-up
- Battery operated. Four AA batteries required (not included). Recommended P/N 32627 (see below)
- UV intensity: 6.5mW/cm² • One-year warranty
- Size: 6.8"L x 1.5"W x 2.3"H • Weight: 0.8 lbs.

15712:



15712

- Erases all EPROMs
- Erases 1 chip in 15 min.
- Erases 8 chips in 21 minutes
- Maintains constant exposure distance of 1"
- Conductive foam liner eliminates static build-up
- Built-in safety lock to prevent UV exposure
- Complete with holding tray for 8 chips
- UV intensity: 6.8mW/cm² • One-year warranty
- Size: 9.0"L x 3.7"W x 2.6"H • Weight: 2.3 lbs.

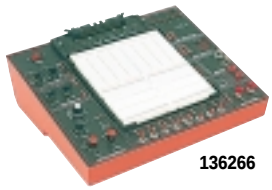
Part No.	Description	1	10	25
66042	Portable eraser	**$64.95**	**$58.95**	**$52.95**
15712	8-chip eraser	**129.95**	**117.95**	**106.95**

Part No.	Accessories	Price
34382	Replacement lamp for 15712	**$34.95**
13864	Conductive foam (12"x24"x0.25")	**7.95**
32627	'AA' Ni-Cad batteries (for 66042)	**1.95**

Need to Prototype?



136258



136266

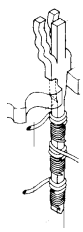


75838

Check Out Jameco's Line of Prototyping Products. See pages 96-98 and 170 for more details



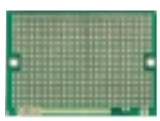
126341



34163



16731



105110

FOREFRONT™ Troubleshooter Software

A self-booting program with its own operating system for accurate hardware component testing. Isolates hardware problems from operating system problems.

Includes Loop Back Connectors!



SALE

- Comprehensive tests of on-board and peripheral hardware
- PC/XT/AT and compatible computers
- 99+ hours burn-in and soak testing
- Printed test report record • Weight: 0.9 lbs.

Part No.	Description	1	10
126130	Troubleshooter software	**$169.95**	**$153.34**

See page 138 for Adobe Photoshop LE Bundle



ULTRA-X Quicktech '98 Diagnostic Software

Self-booting software for 386, 486 and Pentium® II/MMX/III/AMD Athlon

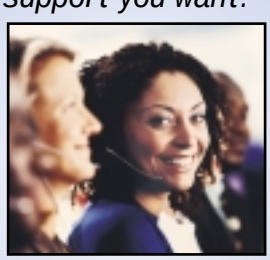


- Verify proper operation and troubleshoot failures of all major PC components: hard drives (MFM, RLL, IDE, SCSI); floppy drives; base, extended and external cache RAM; VGA/EGA/VESA compliant video cards; keyboard; monitor; printer; and I/O ports
- 48 hour burn-in mode for lengthy testing
- Floppy drive head cleaning function

Includes: Loopback testers for DB9 and DB25 serial and DB25 parallel ports, manual and 3.5" disk

Part No.	Description	1	10
134826	QuickTech '98 software	**$129.95**	**$116.95**

"We're here to provide the support you want."



Order 24/7, 365 Days a Year

99.7% Availability

30-Day Money Back Guarantee

See Our Complete Line of Test and Measurement Equipment and Test Leads on pages 119-132.



Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

LAN Tester with Remote



Easily read correct pin configuration of 10baseT, 10base2, RJ45/RJ11 modular cables, 258A, TIA568A/568B, token ring, etc. Test cables installed from a distance either on wall plate or patch panel.

- Check for cable continuity, miswiring, open, short, grounding and pin configurations
- Cable adapters: RJ45 M-M, 2 RJ45M-BNCM and BNC F-F
- On-board connectors: 2 RJ45F (tester) and 1 RJ45F (remote)
- Size: 4.0"L x 2.5"W x 1.0"H (Main console)
- Size: 4.0"L x 1.3"W x 1.0"H (Remote)
- Weight: 0.7 lbs. • One-year warranty

Includes: Manual and test cables

Part No.	Description	1	5
145710	LanTest cable tester	$79.95	$71.95

Ethernet Cable Tester



- Connector type: RJ45 8P8C
- System used: 258A, 356A, AT&T/Ethernet 10BaseT
- Miswire, open, short tests
- Size 4.5"L x 2.5"W x 1.3"H

Requires: 9V battery (recommend P/N 151095, pg 83)

Includes: Zipper case

Part No.	Description	1	10
115895	Network Cat. 5	$29.95	$26.95

BelMERIT Cable Tester UTP, STP and Coaxial Cables

Range:	
50Ω/75Ω Coax	4' to 984'
100Ω twisted pair:	
with RJ45	4' to 328'
with alligator clips	4' to 984'



- Detects opens, shorts, & cable distance
- Measures distance to the open or short • 0.7" digit height
- Tests 50Ω & 75Ω coaxial cable and 100Ω UTP shielded or unshielded cable
- Distance resolution: 1 ft.
- Accuracy: open ±(7% +4 ft.); short ±(10% +4 ft.)
- Size: (unit) 7.0"L x 2.8"W x 1.2"H • Weight: 1.5 lbs.

Includes: Manual, alligator clip to BNC adapter (7"L), carrying case and 4 AA alkaline batteries

Part No.	Description	1	10
171352	UTP/STP/coax	$169.95	$152.95

RJ11 Cable Tester



- Tests RJ11 cables for continuity, miswiring, reverse wiring, and straight-through wiring
- 2 connectors for RJ11 type (6P6C)
- LED indicators for single, double, or triple pair wires
- LED off for open wiring, red indicator for crossed pins, and green indicator for straight-through pins
- Size: 4.1"L x 2.5"W x 1.0"H

Requires: 9V battery (recommend P/N 151095, pg 83)

Includes: Instruction sheet and leather case

Part No.	Description	1	10
181163	RJ11 cable tester	$19.95	$17.95

SALE Watch for the yellow highlighted items and Sale Banners for items up to 60% off

Universal PC Cable Tester

Multimedia, USB, SCSI



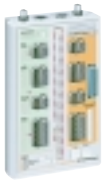
- Complete testing interface for PC, multimedia, and USB cables
- Tested ports: 2 DB9 M-F; 2 HDDB15 M-F; 2 DB25 M-F; 2 Centronics 36-pin M-F; two 4-pin mini DIN F; two 5-pin DIN M-F; two 6-pin mini DIN M-F; 2 RCA F jacks; 2 RJ45 8P8C modular jacks; 2 audio jacks; 2 USB type A F; two 50-pin half pitch F; and two 68-pin half pitch F connectors

Requires: 9V battery (recommend P/N 151095, pg 83) or 9VDC adapter (recommend P/N 100845, pg 68)

Includes: Manual, 5-pin DIN M-M adapter cable, 6-pin mini DIN M-M adapter cable and two 40-pin IDC cables

Part No.	Description	Wt. (lbs.)	1	10
175513	Cable tester	5.1	$399.95	$359.95

Paladin Tools PC Cable-Check™ Tester



Check many different types of cables. Tests standard computer cables for open, shorted and cross-connected wires. PC Cable-Check™ also tests any combination of D-sub 9-pin, D-sub 15-pin, D-sub 25-pin, Centronics 36-pin printer, plus RJ11 and RJ45 telephone plugs. RG58, RG59 and RG62 BNC connections with pass or fail diagnosis clearly shown on LED readout.

- Size: 9.3"L x 5.5"W x 1.8"H • Weight: 1.7 lbs.

Includes: Battery and manual

Part No.	Description	1	10
123916	PC cable-check™	$149.95	$134.95

TRIPLETT Wire Tracing Test Set

LAN "Fox" Generator and "Hound 2" Probe



Fox features:

- Generates 3 distinct tones usable for wire tracing
- LED indicator for continuity
- Line powered in tone mode
- Supplies talk power to a handset or telephone
- Size: 3.6"L x 2.4"W x 1.0"H
- Tone output level: +3dBm, 600Ω
- Max. continuity/talk current: 35mA (shorted leads)

Hound 2 Probe features:

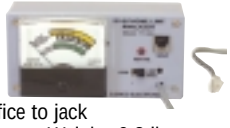
- Streamlined case design • Adjustable volume control
- LED indicator intensifies as signal gets stronger
- Hi-gain & hi-impedance amp • Mylar cone speaker
- Size: 7.2"L x 1.4"W (barrel) x 1.9"Dia. (speaker)

Carrying Case (P/N 155141): 8.5"L x 6.5"W

Requires: 9V battery (recommend P/N 151095, pg 83)

Part No.	Description	Wt. (lbs.)	1	10
155133	Wire tracing set	0.6	$79.95	$71.95
155141	Carrying case	0.2	20.35	18.32

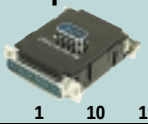
Telephone Line Analyzer Tester



- Connects between telephone and wall jack
- Line test: verifies DC voltage to phone
- Loop test: verifies line condition from central office to jack
- Ring and cord tests • Weight: 0.8 lbs.
- Size: 4.4"L x 2.5"W x 1.8"H • One-year warranty

Part No.	Description	1	10
119378	Line analyzer kit	$24.95	$22.49

RS232 Signal Adapter/Splitter



- Metal connectors: DB25 female and male, and DB9 male
- Gold-plated contacts

Part No.	Description	1	10	100
105195	Tri-port serial adapter	$7.49	$6.49	$5.95

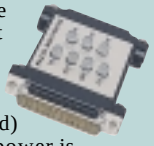
RS232 Line Status Tester



Identifies simple interface problems which you can repair yourself. Targets the status of lines 2, 3, 4, 5, 6, 8, 11, 19 and 20. Connectors: male to female DB25

Part No.	Description	1	10	100
14285	Check tester	$7.95	$6.95	$6.25

RS232 Mini-Tester with Status LEDs



Tests any RS232 (DB25) interface and helps to identify equipment that has failed. Seven bicolor LEDs indicate the status of TD, RD, RTS, CTS, DSR, CD and DTR. LEDs indicate positive (red) and negative (green). No extra power is required. Connectors: male to female DB25.

Part No.	Description	1	10	100
26729	Mini tester	$6.95	$6.25	$5.59

RS232 Loopback Tester



The tester acts as a data verifier by sending data back to the transmission device. Used for diagnostic testing of RS232 circuits. 4 LEDs monitor lines 2 to 3, 4 to 5, 6 to 20 and 15 to 17. Connectors: male to female DB25.

Part No.	Description	1	10	100
22728	Loopback tester	$6.95	$6.25	$5.59

Miniature RS232 Breakout Box for Quick Design Changes

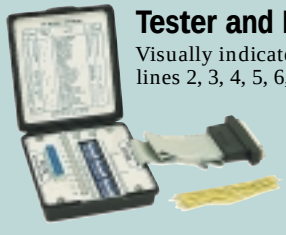


Design new interfaces or modify old ones quickly and easily. Completely self-contained. Connectors: male to female DB25.

Includes: 25 each 22 AWG wire jumpers and machine tool sockets

Part No.	Description	1	10	100
11181	Breakout box	$7.95	$6.95	$6.25

Flexible Multilink RS232 Tester and Breakout Box



Visually indicates the status of lines 2, 3, 4, 5, 6, 8, 20 and 22 on the DTE and DCE sides. Provides signal status at a glance. Complete cable "breakout" and reconfiguration. Connectors: DB25 male and DB25 female.

- Cable length: 4" • Size: 3.5"L x 3.3"W x 1.0"H

Includes: handy carrying case, 10 jumper wires and a device wiring chart

Part No.	Description	1	10	25
25945	Tester/breakout box	$22.95	$19.95	$17.95

Your Best Source for NEW and Out of Production Electronics Products

AT & ATX Vertical Computer Enclosures with Power Supply

- Slide-off side panel accesses roomy interior
- One internal 3.5" drive bay
- Back panel supports seven expansion slots
- Three exposed 5.25" and two exposed 3.5" drive bays
- 115V/230V switch



Easy access through slide-off side panel



138798

Includes: Power cord and 8Ω/0.5W speaker

Part No.	Description	Size (W" x D" x H")	Wt. (lbs.)	1	10
138798	Mid tower w/ 250W AT power supply	8.6 x 17.8 x 17.3	22.5	$75.95	$68.95
140038	Mid tower w/ 250W ATX power supply	8.6 x 17.8 x 17.3	32.1	89.95	80.95
153066	Mid tower w/ 300W ATX power supply	8.6 x 17.8 x 17.3	32.1	99.95	95.49

SCSI-I External Subsystem Enclosures

For Multiple HDs, Network CD-Servers, RAIDs

- Zinc plated metal body w/ streamlined plastic front panel
- Internal SCSI cables with ID address selectors
- Switching power supply • UL/CSA/TUV approval
- High quality internal SCSI cables
- **SCSI-II & SCSI-III versions can be special ordered**
- One-year warranty

129761: 5.25" Full Height or 2-Half Height Bays

- Two SCSI-ID address selector • RCA jack

129779: 5.25" 4-Half Height Bays





P/N 129761 shown with removable rack (not included – see below)

129779 129761

Part No.	Description	Power	Size (W" x D" x H")	Wt. (lbs.)	1	10
129761	SCSI-I: 1full height or 2 half height bays	80W	7.1 x 11.3 x 6.5	8.3	$79.95	$69.95
129779	SCSI-I: 2 full height or 4 half height bays	200W	7.0 x 14.1 x 10.3	15.0	129.95	116.95

ATX Mid-Tower Case

- 3 exposed 5.25" bays
- 2 exposed 3.5" bays
- 2 concealed 3.5" bays
- 7 back panel slots
- Power switch and reset switch on front panel
- LED indicators for power, hard drive, and mode
- Power supply not included, see pg 79 for P/N 152194, 155539, 152514 and 155811
- Size: 7.6"W x 17.0"D x 19.2"H • Weight: 24.7 lbs.



Includes: Mounting hardware

Part No.	Description	Price
181593	Mid-tower case	$34.95

AT Mini-Vertical Case

With 230 Watt Power Supply

- Fits baby AT motherboards
- Back panel with 7 expansion slots
- Power and hard disk LED indicators
- Power and reset switch
- Two exposed 3.5" and three exposed 5.25" drive bays
- 230 watt UL, CSA, FCC approved AT power supply
- Color: gray
- Size: 7.0"W x 17.2"D x 15.4"H • Weight: 14.7 lbs.



Includes: Internal speaker, hardware and detachable power cord

Part No.	Product No.	Description	1	10
172769	HTMH201MT	AT mini-case	$44.95	$39.95

Steel Computer Stand w/ Casters

- Easy to assemble
- Save valuable work space
- Adjustable range: 4.5" to 7.5"
- Supports IBM PC XT/AT system units
- 3mm steel material • Weight: 7.5 lbs.



Part No.	Description	1	10	25
180312	Computer stand	$14.95	$13.49	$11.95

IDE Removable 5.25" Rack Kit for 3.5" Hard Drive w/ Fan

- Supports DMA 66 hard drive
- Removable storage for 3.5" hard drives
- LED for power and hard drive activity
- Retaining lock mechanism
- 12VDC @ 50mA fan
- CFM rating: 5.6
- Size: 5.9"W x 8.7"D x 1.6"H • Weight: 1.3 lbs.



Includes: Mounting hardware

Part No.	Description	1	10	25
170608	Rack kit (IDE)	$29.95	$26.95	$23.95

Hot-Swappable IDE Removable Rack

This rack is removable through the keylock switch. There is no power contact until you lock the rack.



- Power LEDs
- Keylock for security
- Size: 8.8"L x 5.8"W x 1.7"H • Weight: 1.4 lbs.
- ***SCSI-I racks can be special ordered***

Part No.	Description	1	10
134068	IDE hot swappable rack	$45.95	$43.95

Removable HD Rack and Insert

- Removable storage for 3.5" IDE drive
- Power LEDs
- Keylock for security
- One-year warranty



129816

129816:

- Size: 5.8"W x 8.5"D x 1.5"H • Weight: 1.2 lbs.

135861:

- Size: 4.1"W x 7.5"D x 1.6"H • Weight: 0.8 lbs.

Includes: Inner cable with IDE connector

Part No.	Description	1	10	25
129816	Rack, IDE drives	$27.95	$24.95	$22.49
135861	Insert for 129816	19.95	17.95	13.95

Jornada 420 Palm-Top

- Processor: Hitachi SH3 32-bit 100MHz
- Software in ROM: Windows® CE2.11, Windows® CD2.11; Pocket Outlook;Microsoft® Channels Browser; Voice Recorder; Note Taker; JOT (hand writing recognition); bTASK; OmniSolve business calculator
- Display: 240 x 320 pixel touch screen
- Input: pen and touch interface; on-screen keyboard; 4 quick launch icons; quick functions and record buttons
- Memory: 8MB on board • Factory refurbished
- Card slots: compact flash type I and II card slot
- External ports: infrared port; RS232 serial port
- Sound ports: audio speaker and microphone; earphone jack
- Size: 5.2"L x 3.2"W x 1.0"H • Weight: 2.8 lbs.



Requires: Standard lithium ion battery

Includes: Docking cradle with battery charger, serial cable and manual

Part No.	Description	1	10
183249	Jornada 420	$179.95	$159.95

Computer Palm-Top

Windows® CE2.0 Enhanced Version

- 640 x 240 pixel touch display
- Software: Windows® CE Services 2.1; Pocket Outlook; Pocket Word; Pocket PowerPoint; Pocket Internet Explorer Inbox; Microsoft® Excel; Pocket Quicken
- QWERTY layout keypad
- Input/output connectors: compact flash card slot; PC card type II slot; built-in infrared port; audio speaker • Factory refurbished
- Size: 7.2"L x 3.5"W x 1.1"H • Weight: 1.2 lbs.



183425: CPU SH-3 44MHz; 4MB of memory on board

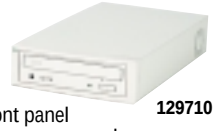
Requires: 2 AA nickel metal hydride batteries

Part No.	Product No.	1	10
183425	HP340LX	$129.95	$116.95

Log onto www.jameco.com

External CD-ROM Cases

- SCSI-I or IDE interface
- SCSI-ID address selector, P/N 126391
- RCA jack
- Streamlined appearance
- Metal body with plastic front panel
- 50 watt universal switching power supply
- Size: 6.5"W x 11.8"D x 2.0"H • Weight: 3.8 lbs.



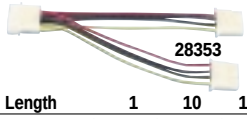
129710

126391: Use cable (P/N 73162, pg 148) for connections

Part No.	Description	1	10
126391	SCSI CD-ROM external case	$49.95	$44.95
129710	IDE CD-ROM external case	79.95	71.95

3.5" and 5.25" Disk Drive Power Splitters

- IBM PC/XT and higher compatibles
- Splits 4-line Molex male into 2 females



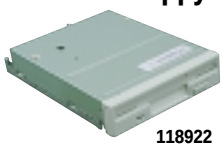
28353

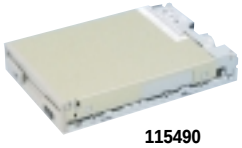
Part No.	Drive	AWG	Length	1	10	100
28353	5.25"	18	5"	$2.75	$2.49	$1.95
72303	3.5"	22	5"	2.49	1.95	1.49

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

For Jameco's Line of Computer Cases see page 133

1.44MB 3.5" Internal Floppy Disk Drives


118922


115490

- IBM PC/XT and higher compatibles
- Compatible with DOS versions 3.3 or higher
- Automatically determines if disk is high or low density
- Weight: 1.4 lbs.
- Size: 4.0"W x 5.9"D x 1.0"H (actual drive size)

Part No.	Product No.	Mfr.	Color	1	10
118922	MPF520-1	Sony	Beige	$34.95	$29.95
115490	FD235	Teac	Beige	34.95	31.49
189000	FD235HF	Teac	Black	24.95	22.49
189173	DF354H011A	Alps	White	24.95	22.49
189165	—	Varies	Beige	24.95	22.49
189350	—	Varies	Black	24.95	22.49

SONY® Triple Density 3.5" Internal Floppy Disk Drive

Without Bezel



- Supports 1MB, 1.6MB and 2MB unformatted capacities
- Size: 4.0"W x 5.9"D x 1.0"H
- Weight: 0.8 lbs.

Part No.	Product No.	Manufacturer	1	10
176284	MPF520-7	Sony	$11.95	$10.70

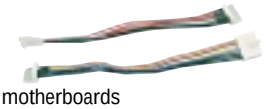
IBM® 360KB 5.25" Internal Floppy Disk Drive



- IBM PC/XT and higher compatibles
- Double-sided
- With faceplate
- Weight: 3.9 lbs.
- Size: 5.8"W x 8.1"D x 1.6"H

Part No.	Product No.	Manufacturer	1	10
126957	YD-580	IBM (360KB)	$34.95	$29.95

6" PC Power Supply Extension Cable Set



- Two 6", 6-conductor cables
- Use with standard IBM compatible power supplies and motherboards
- Wiring: 18 AWG, 300V rating

Part No.	Description	1	10	100
130809	Extension cable set	$2.95	$2.65	$2.39

ATX Power Supply 15" Extension Cable



- For use with ATX power supplies
- 20-pin ATX male and female connectors
- Color coded to ATX power supply code
- 15"L x 18AWG (wires)

Part No.	Product No.	1	10	100
170237	ATX-400-RV	$5.95	$5.35	$4.75

Internal CD-ROM Drives

- 5.25" half-height design
- One-year warranty
- Manufacturer varies

181745: Slot type

Includes: Software and audio cable


181745

IDE Drives

Part No.	Speed	Buffer	kB/sec.	Wt. (lbs.)	1	10
181745	24X	128kB	3600	2.3	$44.95	$39.95
149307	24X	256kB	3600	2.6	49.95	39.95
189051	32X	128kB	4800	2.6	39.95	35.95
189069	40X	128kB	6000	2.6	39.95	35.95
189819	40X	128kB	6000	2.6	39.95	35.95
162042	44X	128kB	6600	2.5	59.95	49.95
189077	48X	128kB	7200	2.6	49.95	44.95
189448	56X	128kB	8400	2.3	59.95	53.95

SCSI Drives

Part No.	Speed	Buffer	kB/sec.	Wt. (lbs.)	1	10
189018	12X	128kB	600	2.6	$59.95	$53.95
189026	24X	128kB	3600	2.6	79.95	71.95
189034	32X	128kB	4800	2.6	99.95	89.95

CD-ROM Accessories



172179 76591 148179

172179: Single CD case
76591: For caddy-mount CD-ROM drives
148179: Holds 24 CDs in clear sleeves

Part No.	Description	Wt. (lbs.)	1	10	50
172179	Single jewel case	0.3	$.29	$.24	$.19
76591	Caddy	0.2	4.59	4.08	3.67
148179	Carrying case	0.7	6.95	6.25	5.49

CD-ROM Audio Cables

Connects your CD-ROM directly to your sound card making installation quick and easy, Blaster compatible!


127546

- 2 x 28 AWG

127546: Sony/MPC2
- Compatible with most CD-ROMs

168612: Universal
- For use with Creative Labs, Sony or generic sound cards
- 3 connectors on each end of wire: 4-position (.100") housing connector; 4-position (.100") Molex-type keyed connector; 3-position (.100") Molex-type keyed connector


168612

Part No.	Connection from Sound Blaster to	Length	1	10	50
127546	Sony/MPC2	25"	$2.95	$2.49	$1.95
168612	Universal	18"	3.95	3.49	2.95

3.5" Drive Mounting Kits

- For mounting a 3.5" floppy drive into a 5.25" slot
- Compatible with Teac drive (P/N 115490, above)


181227


32088

Includes: Beige faceplate

Part No.	Description	1	10	50
32088	Drive mounting kit	$6.95	$5.95	$4.95
181227	Mounting bracket	2.49	2.25	1.95

Internal Computer Cable Pack

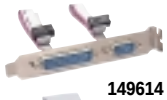


- Standard computer back panel brackets
- Ribbon cable with header connector
- Bracket with DB9 male to 10-pin header and DB25 male to 10-pin header; bracket with DB25 female to 26-pin header; 20" long IDE cable for two hard drives; 20" floppy drive cable

Part No.	Description	1	10	25
180005	Internal cable pack	$3.99	$3.55	$3.19

Panel Bracket Cable Assemblies

- Standard computer back panel brackets
- Length: 12"
- Ribbon cable with header connector


149614

149614/180179: 2 serial ports
149622: 1 parallel port
179995: 2 serial ports and 1 parallel


149622

Part No.	Description	1	10	25
149614	DB9M to 10-pin header DB25M to 10-pin header	$4.95	$4.49	$2.95
180179	DB9M to 10-pin header DB25M to 10-pin header	1.29	1.15	1.03
149622	DB25 to 26-pin header	4.95	4.49	2.95
179995	DB9M to 10-pin header DB25M to 10-pin header DB25F to 26-pin header	3.95	3.49	2.95

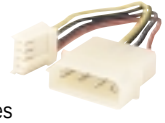
Computer Brackets


Fig.: 1 2 3 4 5 6 7

- For securing cards into bus slots
- Fits standard PC/XT/AT cases
- Length: 4.75"
- Can be used to expand card I/O
- See pg 56 for DB connectors
- * 1.0" top end to first tab (center hole) – 2.5" tab to tab (center hole)

Part No.	Description	Fig.	1	10	100
11754	Blank back panel	1	$1.49	$1.29	$.99
139424*	Blank w/ board mt.	2	1.49	1.25	.75
101717	For DB9 connector	3	1.25	.99	.75
101733	For DB25 connector	4	1.25	.99	.75
101741	For DC37 connector	5	1.25	.99	.75
101830	For DB9 & DB25 conn.	6	1.49	1.29	.99
101709	For DA15 & DB25 conn.	7	1.25	.99	.75

3.5" Disk Drive Power Adapter Cable



- IBM PC/XT and higher compatibles
- Allows connection of standard 3.5" disk drives to power supplies

Part No.	Length	AWG	Wt. (lbs.)	1	10	100
28396	3.5"	22	0.02	$2.49	$2.25	$1.75

Drive Mounting Rails



- AT and compatibles
- 8 mounting holes

Includes: All necessary mounting hardware

Part No.	Description	1	10	100
34323	Mounting rails (2)	$1.25	$.99	$.59

Jameco Provides First Class Technical Support

SCSI / IDE Hard Drives and Mounting Kits

PC/XT/AT and Compatibles

- Drives over 528MB require EIDE controller
- Manufacturers may vary; we carry Seagate, Western Digital, IBM and others.

Check out our external mass storage cabinets on page 133!


124978


180857


117217

Part No.	Capacity	Description	Weight (lbs.)	Speed	Warranty	1	10
137306	528MB	2.5" IDE for portable	0.5	14 ms	3 mos.	$99.95	$89.95
113751	210MB	3.5" IDE	1.6	14 ms	3 mos.	69.95	62.95
115764	425MB	3.5" IDE	1.7	12.5 ms	3 mos.	79.95	71.95
118949	850MB	3.5" IDE	1.7	14 ms	1 year	84.95	74.95
124978	1.27GB	3.5" IDE	1.1	14 ms	1 year	89.95	79.95
146325	1.7GB	3.5" IDE (Fast ATA-2)	1.1	12 ms	1 year	99.95	89.95
146333	2.5GB	3.5" EIDE (Fast ATA-2)	1.0	11 ms	1 year	109.95	99.95
151036	3.2GB	3.5" EIDE (Ultra DMA33)	1.1	11 ms	1 year	114.95	105.95
151044	4.3GB	3.5" EIDE (Ultra DMA33)	1.1	11.5 ms	1 year	119.95	109.95
151052	6.4GB	3.5" EIDE (Ultra DMA33)	1.1	9.5 ms	1 year	129.95	116.95
162261	8.45GB	3.5" EIDE (Ultra DMA33)	1.2	9.5 ms	1 year	139.95	125.95
189149	10.2GB	3.5" EIDE (Ultra DMA66)	1.2	8.9 ms	3 mos.	129.95	116.95
189085	1.0GB	SCSI	1.3	9.6 ms	3 mos.	24.95	22.49
189093	2.0GB	SCSI	1.2	10.1 ms	3 mos.	29.95	26.95
189894	2.0GB	SCSI (Ultra wide)	1.1	8.0 ms	3 mos.	69.95	62.95
190019	2.0GB	SCSI (Ultra 160 SCA)	1.1	7.2 ms	3 mos.	59.95	53.95
189114	4.0GB	SCSI	2.5	9.5 ms	3 mos.	79.95	71.95
189122	4.0GB	SCSI (Ultra wide)	1.3	9.0 ms	3 mos.	89.95	79.95
188907	4.0GB	SCSI (Ultra 160 SCA)	1.2	8.1 ms	3 mos.	119.95	109.95
190027	9.1GB	SCSI	1.1	5.4 ms	3 mos.	229.95	206.95
189131	9.1GB	SCSI (Ultra wide)	1.5	6.1 ms	3 mos.	259.95	229.95
189914	9.1GB	SCSI (Ultra 160 SCA)	1.4	5.0 ms	3 mos.	279.95	249.95

Part No.	Product No.	Description	Weight (lbs.)	1	10	25
180857	HDB35	3.5" hard drive mount kit (short)	0.2	$4.95	$4.49	$3.95
117217	HDMK	3.5" kit (w/ black & grey faceplates)	0.6	7.95	7.25	6.49

SCSI Type / Connector Reference Table

SCSI Type	50-PIN Centronics	50-PIN Low Density	50-PIN High Density	68-PIN High Density	80-PIN High Density
SCSI, SCSI-I	✔	✔			
SCSI-II, Fast/Wide	✔	✔	✔		
SCSI-III, Fast/Wide	✔	✔	✔	✔	
SCA, Ultra, Ultra 2				✔	✔
RAID				✔	✔

IDE Hard Drive Cable (ULTRA DMA 66)

Reduced Error Rate/Improved Speed



- For ULTRA DMA 66-type hard drives • Length: 17"
- Two 40-pin sockets

Part No.	Product No.	1	10	100
175492	PFUDMAG2	$6.95	$6.25	$4.95

Disk Drive Cables

SALE


185084


185092


32918


72805

185084: Floppy Disk Drive Cable
- For 34-pin header • Length: 25"

185092: Floppy Disk Drive Cable
- For 34-pin header • Length: 48"

32918: Floppy Disk Drive Cable
- IBM PC/XT and higher compatible
- Connects floppy drives to controller card
- Length: 23"

72805: IDE Hard Drive Cable • Length: 18"
Includes: Two socket 40-pin headers for two IDE devices

18665: MFM/RLL Hard Drive Cable – 20 pin
- For PC/XT/AT & compatibles • Length: 2'

179987: Hard Drive Cable Kit
- **1 piece** 20" IDE cable (P/N 72805) and 1 piece 25" floppy cable (P/N 32918)

Part No.	Description	1	10	100
185084	For use w/ 3.5" and 5.25"	$3.95	$2.49	$1.99
185092	For use w/ 3.5" and 5.25"	4.95	3.85	3.15
32918	For use w/ one or two 3.5" and 5.25" drives	2.95	2.49	1.75
72805	IDE cable	2.95	2.49	1.75
18665	20-pin data cable	1.35	1.21	1.09
179987	IDE/HD/FD cable kit	2.95	2.49	1.75

Matsushita 120MB Floppy Drive



- 120MB capacity per disk (240MB w/ compression
- Average seek time: 70ms typical
- Transfer rate: 750 – 1360 kB/sec from disk
- IDE interface
- Full read and write compatibility with standard floppy disks (1.44MB and 720kB)
- Fits standard 3.5" drive bay
- Plug & Play with Windows® 98 or higher
- Size: 6.1"L x 4.0"W x 0.9"H • Weight: 2.0 lbs.

Includes: Manual

Part No	Description	1	10
174019	120MB floppy drive	$119.95	$109.95

3.5" Portable External Parallel Port Hard Drive Enclosure



- Allows hard drive to be set up to a parallel port
- Use with IDE drives
- Compatible with DOS and Windows®
- Enters power save mode after 20 minutes idle time
- Size: 8.8"L x 5.3"W x 1.5"H
- Weight: 4.5 lbs.

Includes: 120VAC external power adapter, cable, manual and carrying case

Part No.	Description	1	10
129699	3.5" external HD enclosure	$79.95	$71.95

Same business day shipping until 6:00 p.m. EST.
See page 182 for Zone Chart



"The Products You Need... The Service You Deserve!"



100MB IDE ZIP Drive



- 100MB capacity per disk
- Average seek time: 29ms
- Transfer rate: 1.4MB/sec.
- IDE interface
- Buffer size: 16k
- Fits in standard 3.5" drive bay
- OS: DOS 6.xx, WIN 3X/9X/NTXX
- Weight: 0.9 lbs.
- One-year warranty

Includes ZIP disk and drivers!

Includes: ZIP disk and ZIP drivers (CD-ROM)

Part No.	Description	1	10
149593	ZIP drive (disk and drivers)	$99.95	$89.95

External Zip Drive NiMH Battery Pack



- Lightweight portable battery pack
- Powers your external zip drive for up to 3 hours
- Convenient built-in charging; plugs directly to wall outlet (2-prong plug)
- Output connector: 2.3mm x 5.5mm female plug
- 6V @ 1Ah • Weight: 0.7 lbs.
- Size: 4.5"L x 3.4W x 1.0"H

Part No.	Description	1	10
190166	External battery pack	$34.95	$31.49

Computer Cleaning Kit



- 3.5" head cleaning diskette, 1 bottle head cleaning fluid, CD-ROM drive laser lens cleaner, 1 bottle computer/ CD cleaning solution
- 20 anti-static wipes, 5 anti-static cleaning pads, 5 reusable swabs and 1 CD cleaning cloth
- Vacuum with accessories, tweezers and zipper case
- Size: 11.5"L x 6.2"W x 1.9"H • Weight: 1.2 lbs.

Part No.	Description	1	10
134527	Multimedia cleaning kit	$14.95	$12.95

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Call us for RAM configuration options available on all our motherboards or look on our website at http://www.jameco.com

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

Pentium® MMX 90–233MHz

ALI M1541 Chipset



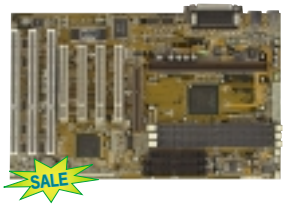
- Award BIOS
- Windows® Plug & Play compatible
- Slot 7 type for Intel Pentium® MMX 90–233MHz, Cyrix 6x86 and AMD K-5/K-6
- Supports three 168-pin DIMM memory upgradeable to 768MB
- 4 PCI slots, 3 ISA slots; AGP slot
- On-board I/O controller: 2 IDE ports; floppy drive port; 2 serial ports; parallel port and 2 USB-A female ports
- Async serial ports with high speed 16C550 and 16-byte FIFO, and parallel port supports EPP/ECP/Bi-directional mode
- PS/2 keyboard and mouse; 2 USB ports; two 9-pin male serial; and 25-pin female parallel ports • 20-pin ATX type power connector
- Size: 12.0"L x 7.5"W • Weight: 1.9 lbs.

Includes: Manual, 3.5" drivers and cable

Part No.	Description	1	5
173307	Pentium® MMX 90-233MHz	$69.95	$62.95

Pentium® II 233-333MHz

82443LX Chipset with Award BIOS



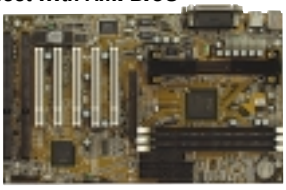
- Award BIOS
- Slot 1 type for Pentium® II processors up to 350MHz
- Three 168-pin DIMM sockets upgradeable to 384MB (EDO)
- 4 PCI and 3 ISA sockets with shared PCI/ISA
- On-board: 2 IDE ports that supports 4 IDE devices; floppy drive port; AGP port
- PS/2 female keyboard and mouse; 2 USB ports; 2 DB9 male serial and a DB25 female connector
- 20-pin ATX form factor
- Size: 12.0"L x 7.4"W • Weight: 2.5 lbs.

Includes: Manual, cable, retaining clip for Pentium® II processors and CD-ROM drivers

Part No.	Description	1	5
185367	Pentium® II motherboard	$49.95	$39.95

Pentium® II 233–333MHz

82443LX PCI Chipset with AMI BIOS



- AMI BIOS
- Slot 1 type for Pentium® II 233MHz to 350MHz processors
- 5 PCI and 2 ISA with one shared PCI/ISA
- Three 168-pin DIMM sockets upgradeable to 384MB (SDRAM type) or 768MB (EDO type)
- On-board: 2 IDE ports that support 4 IDE devices, floppy drive port and AGP port
- PS/2 female keyboard and mouse; 2 USB ports; 2 DB9 male serial; DB25 female parallel; IrDA 5-pin header connectors on board
- 20-pin ATX form factor
- Size: 12.0"L x 7.3"W • Weight: 3.1 lbs.

Includes: Manual, cables, Pentium® II processor retaining clips and CD-ROM drivers

Part No.	Description	1	5
185383	Pentium® II motherboard	$59.95	$49.95

Pentium® II and Celeron 233MHz–333MHz

82443EX Chipset



- Award BIOS
- Slot 1 type for Pentium® II and Celeron processors
- Two 168-pin DIMM socket upgradeable to 256MB (SDRAM)
- Two PCI and 2 ISA with one shared PCI/ISA socket
- On-board: 2 IDE ports that support 4 IDE devices, floppy disk port, AGP port with ESS sound onboard
- PS/2 female keyboard and mouse; 2 USB ports; 2 DB9 male serial ports; DB25 female parallel port; DB15-pin female game port; 3 audio I/O jacks
- 20-pin ATX form factor
- Size: 9.6"L x 7.8"W • Weight: 1.9 lbs.

Includes: Manual, cables, retaining clip for Pentium® II processors and CD-ROM driver

Part No.	Description	1	5
185359	Pentium® II motherboard	$39.95	$34.95

Pentium® II and Celeron 233–333MHz

Intel i82440LX Chipset



- Award BIOS
- Slot 1 type for Pentium® II and Celeron processors
- 4 PCI, 2 ISA, AGP slot
- Three 168-pin DIMM sockets that support EDO and SDRAM upgradeable to 768MB
- On board I/O controller: 2 IDE ports; floppy disk port, and IrDA header
- PS/2 keyboard and mouse, 2 USB ports, two 9-pin male serial; 25-pin female parallel (modular type) connectors on board
- 20-pin ATX form factor power connector
- Size: 12.0"L x 7.1"W • Weight: 2.3 lbs.

Includes: Manual, cables, retention mechanism and 3.5" disk

Part No.	Description	1	5
181761	Pentium® II motherboard	$59.95	$49.95

Pentium® III 600–800 MHz

Intel 82810DC100 Chipset



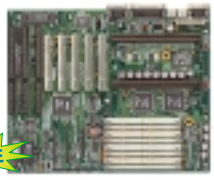
- AMI BIOS
- Windows® Plug & Play compatible
- Socket PGA 370 type for Pentium® III processors
- Two 168-pin DIMM sockets upgradeable to 512MB
- 3 PCI slots and AMR (audio modem riser) slot
- On-board: 3D graphics system with 2MB on board memory with 37-pin male header connector for TV or digital flat panel display; Creative ES1373 sound card; 2 IDE ports that support 4 IDE devices; floppy port; 10-pin male header for COM2 serial port
- PS/2 keyboard and mouse; 2 USB ports; DB9 male serial; HDDB15 female monitor; DB25 female parallel; DB15 female game port; 3 female jacks for audio/mic/IO connectors (modular type)
- 20-pin ATX form factor power connector
- Size: 9.6"L x 7.5"W • Weight: 1.5 lbs.

Includes: Manual, cables and CD-ROM drivers

Part No.	Description	1	5
185682	Pentium® III motherboard	$99.95	$89.95

Dual Pentium® II 233–333MHz

Intel 440FX Series Chipset



- AMI BIOS
- Dual Slot 1 type
- Windows® Plug & Play compatible
- Supports Pentium® II 233–300MHz;
- Eight 72-pin SIMMS upgradeable to 1GB of memory
- 5 PCI and 3 ISA slots with shared PCI/ISA slot
- 20-pin ATX power connector
- On board I/O controller: 2 EIDE ports; floppy port; two USB ports, infrared port
- PS/2 female keyboard and mouse; two 9-pin male serial; 25-pin female parallel connectors
- Size: 12.0"L x 9.8"W • Weight: 2.9 lbs.

Includes: Manual, cables, and retention mechanism

Part No.	Description	1	5
180241	ATX motherboard	$109.95	$99.95

Pentium® II 233–333MHz With Audio

Intel 82440FX PCI Chipset



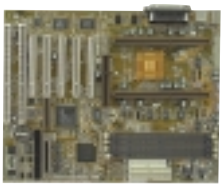
- Award BIOS
- Windows® Plug and Play compatible
- Slot 1 type for Pentium® II 233–350MHz processors
- Supports six 72-pin SIMM sockets upgradeable to 384MB (BEDO/EDO/ Fast page mode DRAM)
- 5 PCI slots & 3 ISA slots with shared PCI/ISA slot
- On-board: 2 IDE ports that support 4 IDE devices; floppy drive port; sound card with CRYSTAL CS4237B (3D audio chip) chipset
- PS/2 female keyboard and mouse; 2 USB ports; 2 DB9 male serial ports; DB25 female parallel port; DA15 female game port; 3 audio I/O jacks
- 20-pin ATX form factor power connector
- Size: 12.0"L x 9.6" • Weight: 2.6 lbs.

Includes: Manual, CD-ROM drivers, cable and retention mechanism for Pentium® II processors

Part No.	Description	1	5
188082	Pentium® II motherboard	$49.95	$39.95

Dual Pentium® II 233-333MHz

Intel 82440LX and 82371AB PCI chipset



- Windows® Plug and Play compatible
- Dual slot 1 type for Pentium® II processors up to 333MHz
- Four 168-pin DIMM sockets upgradeable to 512MB of SDRAM
- 5 PCI and 2 ISA with shared PCI/ISA; AGP slot
- On-board I/O controller: 2 IDE ports that support 4 IDE devices; floppy drive port
- PS/2 keyboard and mouse; 2 USB ports; 2 DB9 male serial; DB25 female parallel port (modular type connectors)
- 20-pin ATX form factor power connector
- Size: 12.0"L x 9.6"W • Weight: 3.0 lbs.

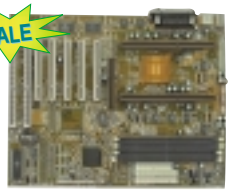
Includes: Manual, cables, retention mechanism and CD-ROM drivers

Part No.	Description	1	5
185666	Pentium® II motherboard	$109.95	$99.95

Same business day shipping until 6:00 p.m. EST

Dual Pentium® II 233-350MHz

With on-board SCSI port and RAID Slot
Intel 82440LX and 82371AB chipset



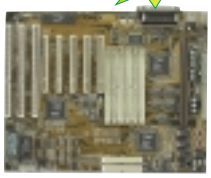
- Award BIOS
- Windows® Plug & Play compatible
- Dual slot 1 type for Pentium® II processors up to 350MHz
- Four 168-pin DIMM sockets upgradeable to 512MB of SDRAM or 1GB of EDO RAM
- 5 PCI & 2 ISA slots with shared PCI/ISA; AGP slot
- On-board I/O controller: IDE port that supports 2 IDE devices; Adaptec AIC-7880 SCSI port 68-pin; Adaptec RAID port slot for ARO-1130 controller card
- PS/2 keyboard and mouse; 2 USB-A female; 2 DB9-pin males serial; 1 DB24-pin female parallel connectors (modular type connectors)
- 20-pin ATX form factor
- Size: 12.0'L x 9.6'W • Weight: 3.0 lbs.

Includes: Manual, cables, retention mechanism and CD-ROM drivers

Part No.	Description	1	5
185674	Pentium® II motherboard	$149.95	$129.95

Pentium® II 233–266MHz

Intel 82440FX PCI Chipset



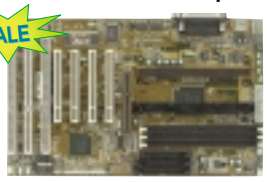
- Award BIOS
- Windows® plug and play compatible
- Slot 1 type for Pentium® II 233–266MHz processors
- Six 72-pin SIMM sockets upgradeable to 384MB (EDO/Fast Page)
- 5 PCI and 3 ISA with one shared PCI/ISA socket
- On-board: 2 IDE ports that support 4 IDE devices; floppy drive port
- Two high speed 16C550 UART compatible buffer fast serial ports; and multi-mode parallel port that support SPP/EPP/ECP mode
- PS/2 female keyboard and mouse; 2 USB-A female ports; 2 DB9 female serial ports; IrDA headers
- 20-pin ATX form factor power connector
- Size: 12.0"L x 9.6"W • Weight: 2.6 lbs.

Includes: Manual, 3.5" drivers, cable, and retention mechanism for Pentium® II processors

Part No.	Description	1	5
188074	Pentium® II motherboard	$49.95	$39.95

Pentium® II Processors

FW82371 PCI Chipset & 82440LX AGP Chipset



- Award BIOS
- Slot 1 type for Pentium® II processors up to 333MHz
- Supports three168-pin DIMM sockets upgradeable to 512MB (SDRAM) or 1GB (EDO DRAM)
- 4 PCI and 3 ISA w/ shared PCI/ISA socket; AGP slot
- On-board: 2 IDE ports that support 4 IDE devices; floppy drive port
- PS/2 female keyboard and mouse; 2 USB-A female; 2 DB9 female serial ports; DB25 male parallel port
- 20-pin ATX form factor power connector
- Size: 12.0"L x 7.5"W • Weight: 2.5 lbs.

Includes: Manual, 3.5" drivers, cable, and retention mechanism for Pentium® II processor

Part No.	Description	1	5
188091	Pentium® II motherboard	$69.95	$59.95

Baby AT/ATX for Pentium® II Processors (Up to 333MHz)

82443LX Chipset



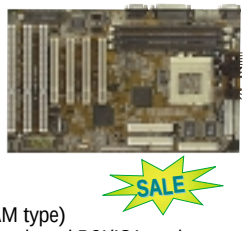
- Award BIOS
- Slot 1 type for Pentium® II processors up to 333MHz.
- Three 168-pin DIMM sockets upgradeable up to 384MB (SDRAM) or 768MB (EDO RAM)
- 4 PCI and 2 ISA with 1 shared PCI/ISA socket
- On-board: 2 IDE ports that support 4 IDE devices; floppy drive port; AGP socket
- On-board male headers for 2 serial ports; parallel port; 2 USB ports; IrDA; PS/2 mouse
- AT 5-pin DIN connector for keyboard
- 20-pin ATX and 12-pin AT power connector
- Size: 9.9"L x 8.6"W • Weight: 2.5 lbs.

Includes: Manual, cables, retaining clip for Pentium® II processor, and 3.5" disk driver

Part No.	Description	1	5
185375	Pentium® II motherboard	$69.95	$59.95

AT/ATX for Pentium® 90MHz–233MHZ

Intel 82439TX / 82371AB Chipset



- Award BIOS
- Slot 1 type for Intel Pentium®90MHz–233MHz; Pentium® MMX and AMD K5
- Three 168-pin DIMM sockets upgradeable to 256MB (EDO and SDRAM type)
- 4 PCI and 3 ISA with one shared PCI/ISA socket
- On-board: 2 IDE ports that supports 4 IDE devices; floppy disk port
- PS/2 female keyboard and mouse; 2 DB9 male serial ports; DB25 female parallel port; male headers for USB ports
- 20-pin ATX and 12-pin AT form factor
- Size: 12.0"L x 7.4"W • Weight: 1.9 lbs.

Includes: Manual and cable

Part No.	Description	1	5
185341	Pentium® motherboard	$59.95	$49.95

Take a look at pages 178-180 for our selection of How To Books



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ISA 16-Bit Super VGA Card

512KB on Board



- 1024 x 768 resolution in non-interlaced and interlaced modes
- Supports 16 colors; requires 1MB video RAM
- Supports VESA standard graphics and text modes
- Output HDDB15 female (analog)
- Emulates VGA, EGA, CGA, MDA and Hercules modes
- One-year warranty

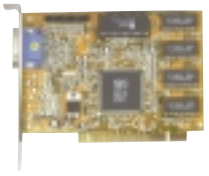
Requirements: IBM AT and higher compatibles

Includes: 512kB video RAM, expandable to 1MB by adding one P/N 128688 chips, pg 13; software and manual

Part No.	Description	1	10	25
104660	VGA card	$49.95	$44.95	$39.95

PCI 24-Bit SVGA Graphics Card

4MB on Board



- SIS 6326 AGP chipset
- Best support for DVD and MPEG-II playback
- 24-bit color @ 800 x 600 resolution
- Refresh rate: 60/75Hz
- HDDB15 female connector
- Size: 5.3"L x 3.5"W

Requirements: Windows® 3.x/95/98/NT4.0

Includes: Manual and CD-ROM drivers

Part No.	Description	1	10
167476	PCI accelerator card	$39.95	$35.95

VESA 24-Bit Graphics Accelerator Card

1MB on Board



Increases the speed of graphics and windowing programs by up to 15 times that of standard VGA.

- Provides 24-bit true color at 640 x 480 pixels, 16M colors • Connector: HDDB15 female
- On board memory: 1MB, expandable to 2MB using 256k x 16 DRAM P/N 128688, pg 13
- Non-interlaced/interlaced modes supported
- Weight: 0.7 lbs. • One-year warranty

Requirements: Intel® 486 & higher compatibles

Part No.	Description	1	10
137285	Graphics accelerator	$39.95	$35.95

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

14" SVGA Color Monitor



- Refurbished (mfr. may vary)
- 13" diagonal view
- 0.28mm dot pitch
- HDDB15 male connector
- Power, contrast, brightness, horizontal and vertical position, recall and trapezoid knob adjustments
- Resolution: 1280 x 1024 @ 60Hz
- Input voltage: 100-240VAC @ 50/60Hz
- Size: 14.2"W x 14.6"D x 13.5"H • Weight: 25 lbs.

Requirements: IBM PC/XT or higher compatible

Includes: Power cable, tilt and swivel base

Part No.	Description	1	10
174537	14" SVGA color monitor	$69.95	$62.95

15"/17" SVGA Color Monitors



- Refurbished (mfr. may vary)
- 0.28mm dot pitch
- Resolution: 1280 x 1024 @ 60Hz
- Digital panel control
- Input voltage: 100-240VAC, 50/60Hz (auto switching)
- Power, contrast, brightness, horizontal and vertical size position, recall and trapezoid front control
- HDDB15 male connector • UL/CSA/TUV approved

153306: • 13.5" diagonal view
• Size: 14.5"W x 16.0"D x 14.6"H • Weight: 45 lbs.

181905: • 15.5" diagonal view
• Size: 16.5"W x 17.0"D x 14.5"H • Weight: 47 lbs.

Requirements: IBM PC/XT or higher compatibles

Includes: Power cable, tilt and swivel base

Part No.	Description	1	10
153306	15" SVGA color monitor	$99.95	$89.95
181905	17" SVGA color monitor	149.95	134.95

12" Monitor Stand



- For 12" monitors
- 25˚ tilt
- Anti-skid feet
- 360˚ swivel
- Base size: 11"W x 10"D
- Weight: 2.6 lbs.

Part No.	Description	1	10	25
180321	12" monitor stand	$4.39	$3.95	$3.54

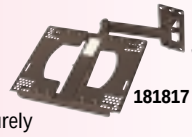
14" Monitor Stand



- For 14" monitors
- 360˚ swivel
- 12.5˚ tilt
- Base size: 14"W x 12"D
- Weight: 4.0 lbs.

Part No.	Description	1	10	25
180339	14" monitor stand	$6.35	$5.68	$5.10

Monitor/TV Wall Mount Brackets





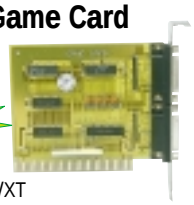
- 95˚ swivel
- Assembly required
- Requires unit base to be mounted securely to wall stud
- Wall mount screws not included

181817: • Supports up to 66 lbs. • Weight: 9.0 lbs.
156988: • Supports up to 165 lbs. • Weight: 26 lbs.

Part No.	Description	1	10
181817	12"–18" TV wall mount	$29.95	$27.95
156988	20"–29" TV wall mount	64.95	59.95

See page 165 for security equipment monitors

ISA Dual-Port Game Card



- Enables two people to play a game at the same time
- Uses standard IBM type joysticks
- Two game ports
- One-year warranty

System requirements: IBM PC/XT and higher compatibles

Part No.	Description	1	10	25
105515	Game card	$8.95	$8.10	$7.25

All-In-Wonder PRO AGP TV/Video Capture Card



- On-board 8MB synchronous RAM display buffer
- Separate horizontal and vertical sync
- 3D rage accelerator chip supports gouraud shading, perspective correction, alpha blending, Mip mapping, bilinear filtering, z-buffering 3D triangle set-up engine and dbx TB audio
- Turns your PC into an intelligent TV with zoom-in, schedule viewing, channel scanning, video capture, closed captioning, program transcript recording, instant replay functions
- Input/output connectors: HDDB15 female connector for monitor; 8-pin mini DIN connector for audio/video input and output; cable TV jack

Requirements: Pentium® or higher compatible; AGP slot; Windows® 95 or 98; VGA monitor with minimum 640 x 480 resolution

Includes: CD-ROM drivers; 3 A/V in & out cables

Part No.	Description	1	10
189763	AGP TV/Video Capture Card	$149.95	$134.95

Value pricing backed by our competitive price matching guarantee. If you ever find our products offered by another retailer for less, provide the printed reference and ***we will match it!***

PCI 3-Port Firewire Card

400 Mbps (IEEE-1394)

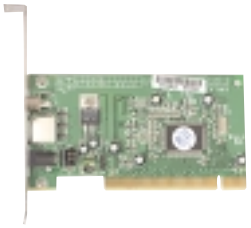


- Allows IEEE-1394 connections to standard PCI bus
- Easily connects your digital camcorder, TV, VCR, DVD to your computer
- IEEE-1394 OHCI compliant
- PCI Rev. 2.2 compliant
- 100-400 Mbps transfer rates
- Plug & Play compatible – devices can be added or removed without shutting down system
- 2.2V power consumption/5V input tolerant
- Peer to peer communication structure
- Supports up to 63 devices
- Size: 4.8"L x 3.5"W

Includes: Installation sheet

Part No.	Description	1	10	25
169156	Firewire card	$44.95	$39.95	$36.15

Video Capture PCI Card



- Plug & play
- Supports RGB 32, 24, 15 formats
- AVI compatible
- Supports video conferencing applications
- One-year warranty
- Size: 4.8"L x 22"W

System requirements: Pentium® 100MHz or higher; available PCI slot; Windows® 95/98; VGA card with DirectDraw support

Includes: Manual and CD-ROM drivers

Part No.	Description	1	10	25
172793	Video capture card	$54.95	$49.95	$44.95

Video Capture Card with Camera



- Plug & Play PCI specification version 2.1 compliant
- CIF (common interlace format) for image capturing
- True motion codec (compression & decompression)
- NTSC/PAL/SECAM composite video capture at a full 640 x 480 resolution with 24-bit color depth
- Capture and compress video at rates of 30fps (frames per second) • Provides real time images
- Video conferencing; video messaging; editing, video conferencing; and manipulation software suite
- Size: 4.8"L x 2.2"W • Weight: 0.8 lbs.

System requirements: Windows® 95 or better; Pentium® 133MHz or better; 16MB of RAM; 46MB hard disk space, 4X CD-ROM; PCI video board with 2MB of memory; 640 x 480 display with 8-bit color depth; available PCI slot; for better results recommend Pentium® MMX 233MHz; 32MB RAM; 800 x 600 display with 16-bit color depth; sound card; microphone; speakers (for audio and video capturing) ISP; 56k V.9 modem

Includes: Manual on CD-ROM, CD-ROM drivers, and camera

Part No.	Description	1	10	25
180110	Video capture card	$79.95	$59.45	$47.95

Adobe Photoshop 4.0 LE Bundle

Mac/Windows® Compatible



This limited-edition software gives you the power to create compelling images and the precision to prepare them for whatever media you choose.

Bundle contains:
- 1 Adobe Photoshop 4.0 LE
- 3 HP printer CD-ROM drivers
- 1 Jameco mouse pad, P/N 121363 (7.0"L x 5.5"W)
- Weight: 1.1 lbs.

Part No.	Description	1	10
172611	Photoshop 4.0 LE bundle	$17.95	$14.95

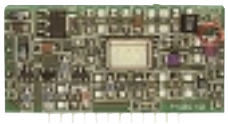
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OTEK Board-Based OEM Wireless RF Transceiver with RS-232 Port and PC Software



RF section:
- Operating frequency: 916.5MHz
- Data rate: (RF) on-off keyed: 19.2kB
- Max. peak transmit power: 1mW
- Receivers gain: 100dB
- Auto transmission: 32 characters
- Telemetry: every 30 characters
- Indoor/outdoor range: 100ft./300ft.

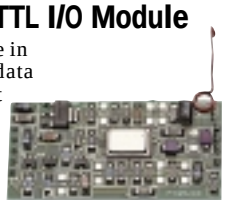
SALE

RS section:
- TS232C/485/TTL: 19.2kbps
- TTL/CMOS: 1 load • Characters: any
- Handshake: none required • Settings: 8N1

Overall specifications:
- Voltage input: 5VDC • Transmit current: 20mA
- Receive current: 10mA • Max # of nodes: 15
- Sleep current: 2mA

Part No.	Product No.	1	10
176508	TR200B	$105.95	$95.35

OTEK Wireless (RF) Transceiver with TTL I/O Module



Economical and effective in transceiving streams of data at high rates over a short distance with minimum power consumption lending itself to battery operated products.

- Operating frequency: 915.6MHz (±200kHz)
- Modulation: on-off keyed
- Data rate: on-off keyed: 19.2kB
- Sleep current: 25uA • Receive current: 6mA
- Transmit current: 12mA
- Voltage input: 5VDC
- Peak transmit power: 0.85mW
- Indoor/outdoor range: 100ft./300ft.

Part No.	Product No.	1	10
176495	TR101	$79.95	$69.95

ISA Enhanced IDE Card

Supports 4 EIDE Devices (HD, CD-ROM, Tape Drive)

SALE



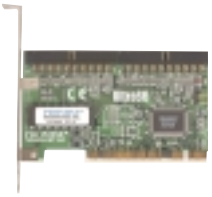
Provides multiword DMA transfer hardware (up to 8.33MB/sec.).
- ROM BIOS will auto-configure the hard drive parameters with any set-up feature
- One-year warranty • Weight: 0.7 lbs.

Includes: Manual and cables

Part No.	Description	1	10
127386	Enhanced controller	$38.75	$34.79

PCI Ultra ATA/66 and Enhanced IDE HD/CD-ROM Controller Card

Supports 2 Ultra ATA/66 and/or 2 EIDE Devices



- True Plug & Play support
- Ultra 66 BIOS on board supports Ultra ATA66/ ATA33, EIDE, and ATA-2 devices
- Compatible with DOS 5.0 and higher, Windows® 3.x/95/98/ NT3.x/NT4.x
- Size: 4.8"L x 2.1"W

Includes: 80 wire/40-pin cable (for Ultra ATA/66) and 3.5" drivers

Part No.	Description	1	10
167329	Enhanced IDE card	$39.95	$35.95

PCI Plug & Play SCSI-II Controller Card



- Plug & Play design
- Internal and external SCSI II 16-bit connectors
- Disconnect/reconnect, command tagged queuing, scatter/gather, multi-threaded I/O operation support
- Supports most SCSI devices
- Windows® 95 compatible
- Size: 4.8"L x 3.0"W
- One-year warranty

SALE

Includes: Manual, ribbon cable and software

Part No.	Description	1	10
138608	PNP PCI SCSI-II card	$74.95	$67.35

PCI Ultra2 SCSI Controller Card



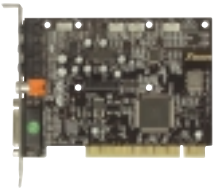
- AIC-7890AB chipset
- Windows® 95/NT, NetWare, OS/2 compatible
- Plug & Play design
- Internal and External Ultra2 SCSI 68-pin connectors
- Supports Ultra2 SCSI peripherals at speeds up to 80Mbytes/sec or Ultra/ UltraWide peripherals up to 40Mbyte/sec
- Supports up to 15 SCSI peripherals
- Size: 6.0"L x 3.5"W

NEW

Part No.	Description	1	10
191513	Ultra2 SCSI card	$149.95	$134.95

PCI Sound Card with Wavetable

YMF724F-V Chipset



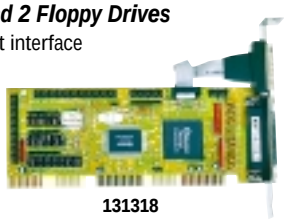
- PCI 2.1 compliant
- PC '97/98 specification compliant
- PCI bus power management rev. 1.0 compliant
- PCI bus master for PCI Audio: true full duplex playback and capture; direct sound/direct music hardware acceleration
- Legacy audio compatibility
- Supports Yamaha AC-3 device
- Input jacks for line-in/microphone/audio output; 15-pin port for joystick
- Size: 5.0"L x 3.4"W

System requirements: Pentium® 100MHz or faster; 16MB of RAM or more; available PCI slot; Windows® 95; 15MB hard disk space; CD-ROM drive

Part No.	Description	1	10
184858	PCI sound card	$29.95	$26.95

ISA IDE Super 16-Bit I/O Plus Cards

Supports 2 IDE and 2 Floppy Drives



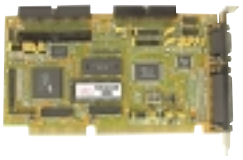
131318

- Parallel printer port interface (P/N 131318 is bidirectional)
- Game port
- Two RS232 serial ports
- UART emulation: **67061:** 16450; **131318:** 16550
- Weight: 0.9 lbs. • One-year warranty

Includes: Manual and cables

Part No.	Description	1	10
67061	16450 UART I/O card	$14.95	$13.49
131318	16550 UART I/O card	29.95	26.95

ISA EIDE Super I/O Controller Card

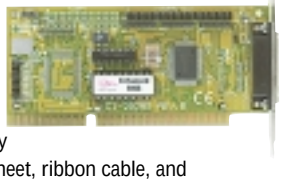


- Supports 4 EIDE devices (HD, CD-ROM, tape drive), 2 floppy drives, 2 parallel ports, SPP/EPP/ECP, 2 serial ports, 16550 compatible, 1 game port
- Compatible with DOS 6.2, Windows® 3.1, Windows® Workgroups 3.11, OS/2 and Netware 3.1x, 4.01
- Intelligent ROM BIOS automatically configures EIDE ports • One-year warranty
- Size: 6.5"L x 4.0"W • Weight: 1.1 lbs.

Includes: Manual and cables

Part No.	Description	1	10
138624	ISA-EIDE controller card ..	$64.95	$59.95

ISA Fast SCSI-II Controller Card



- Compatible with DOS, Windows®, Windows® NT, Windows® 95, OS2 Netware, and SCO Unix
- Internal and external SCSI-II connectors
- Size: 6.3"L x 2.9"W
- Weight: 0.6 lbs.
- One-year warranty

Includes: Setting sheet, ribbon cable, and software (3.5" disk)

Part No.	Description	1	10
149294	ISA SCSI-II controller card	$44.95	$39.95

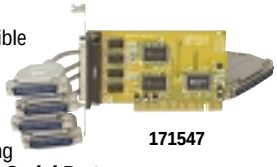
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Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

PCI High-Speed Serial I/O

2/4/8 16C650 Serial Ports

- 32-byte FIFO
- Plug & Play compatible
- Standard RS232 interface
- Transfer rate: up to 921kb/sec.
- Supports IRQ sharing


171547

172005: Dual 16C650 Serial Ports
- Two 9-pin male connectors
- Size: 4.7"L x 2.8"W • Weight: 0.5 lbs.

171547: Quad 16C650 Serial Ports
- Size: 4.7"L x 2.8"W • Weight: 0.9 lbs.

Includes: Manual, cable (37-pin male to 4 DB25 male) and drivers on CD-ROM

171660: Eight 16C650 Serial Ports
- Size: 6.5"L x 3.6"W • Weight: 1.8 lbs.

Includes: Manual, internal cable with bracket, 2 cables (37-pin male to 4 DB25 male) and drivers on CD-ROM

System requirements: 486 and higher compatible, Windows® 95/98/NT/2000

Part No.	Description	1	10
172005	2-port PCI serial card	$59.95	$53.95
171547	4-port PCI serial card	119.95	107.95
171660	8-port PCI serial card	179.95	161.95

ISA Serial I/O

- Quad 16C550 serial port UNIX
- 4 serial ports (RS232 interface) for asynchronous communication
- Weight: 1.1 lbs.
- One-year warranty



System requirements: IBM AT & higher compatibles

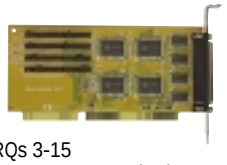
Includes: 37-pin to 4 DB25M cable, 7.25"L

Part No.	Description	Price
104678	4-port serial card	$44.95

ISA High-Speed Serial I/O

Quad 16C650 Serial Ports

- 32-byte FIFO
- 16-bit ISA interface
- MS-DOS, Windows® 3.x, 95 and NT compatible
- Four 16C650 ultra high-speed serial ports
- Supports COM 1-8 and IRQs 3-15 (jumper selectable)
- Supports IRQ sharing
- Size: 6.2"L x 4.3"W
- One-year warranty



System requirements: IBM PC/AT & AT compatibles

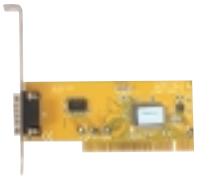
Includes: 37-pin male to 4 DB25 male cable and manual

Part No.	Product No.	Wt. (lbs.)	1	10
152291	4042A	1.2	$54.95	$49.95

PCI Serial I/O

Single 16C550 Port

- Plug and play ready
- 32-bit PCI bus interface
- Transfer rates up to 921kb/sec
- 32 byte FIFO
- Supports IRQ sharing
- Size: 4.8"L x 1.8"W • One-year warranty



System requirements: 486/Pentium® and higher compatibles; Windows® 95/98/NT/2000

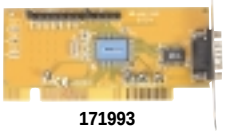
Part No.	Description	1	10
171361	Single serial card	$38.95	$35.95

30-Day Money Back Guarantee

ISA High Speed Serial I/O

32-Byte Single/Dual 16C650 Serial Port

- 32-byte FIFO
- IRQ (3, 5, 7, 9, 10, 11, 12, 15) and address jumper configurable
- DB9 male connector
- Size: 5.0"L x 2.0"W


171993

System requirements: 486/586 or higher compatible, Windows® 95/98/NT

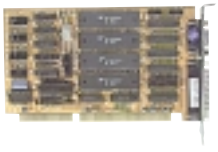
Includes: Manual and drivers on CD-ROM

Part No.	Description	1	10
171993	Single serial card	$19.95	$17.95
172380	Dual serial card	21.95	19.95

ISA High-Speed Serial

Quad 16C550 Serial Ports

- High-speed 16C550 UARTs with 16 or 32-byte FIFO
- 4 serial ports; 2 each DB9M and DB25M
- IRQs: 3, 4, 5, 9, 10, 11, 12, or 15
- Weight: 0.7 lbs.
- One-year warranty



COM Address		COM Address	
1	3F8	5	3F0
2	2F8	6	3E0
3	3E8	7	2E0
4	2E8	8	260

System requirements: IBM AT and higher compatibles

Includes: DB25 male and DB9 male panel bracket assembly and instruction sheet

Part No.	Description	1	10
132572	4-port hi-speed serial card	$59.95	$53.95

ISA Serial I/O

16-Byte Single/Dual 16C650 UART Port

- 16-byte FIFO
- Transfer rates up to 921kb/sec
- IRQ (3, 5, 7, 9, 10, 11, 12, 15) and address jumper configurable
- Weight: 0.5 lbs.


171555

171504: Single High-Speed Serial Port
- RS232 V24 standard serial interface
- 1 DB9 male connector
- Size: 5.0"L x 2.0"W

171555: 2 High-Speed Serial Port
- 2 DB9 male connectors • Size: 5.0"L x 2.7"W

System requirements: 486/586 and higher compatibles; Windows® 95/98/NT/2000

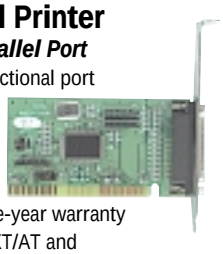
Includes: Manual and drivers on CD-ROM

Part No.	Description	1	10
171504	Single serial card	$17.95	$15.95
171555	Dual serial card	24.95	22.49

ISA Parallel Printer

Single Bidirectional Parallel Port

- Single standard and bidirectional port
- Jumper selectable for printer address and port (LPT1 - LPT3)
- Jumper selectable for IRQ addressing (3, 4, 5, 7, 9)
- Size: 4.0"L x 2.0"W • One-year warranty



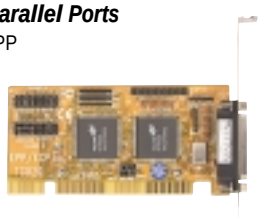
System requirements: PC/XT/AT and higher compatibles

Part No.	Product No.	1	10	25
155660	KW508G	$19.95	$17.95	$14.95

ISA Parallel Printer Card

Dual Bidirectional Parallel Ports

- Supports ECP/EPP/SPP
- Select from IRQs: 3, 4, 5, 7, 9, 10, 11, 12, or 15
- Address selectable to LPT1-LPT6
- Print mode jumper selectable
- Weight: 0.6 lbs. • One-year warranty



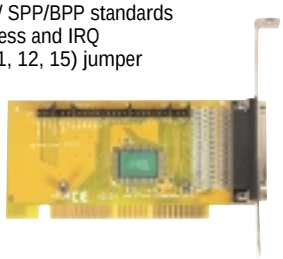
System requirements: IBM AT & higher compatibles

Part No.	Description	1	10	25
132214	2-port printer card	$24.95	$22.45	$19.95

ISA High Speed Parallel Card

21.4MB/Sec. Bidirectional

- Supports ECP/EPP/ SPP/BPP standards
- Printer mode, address and IRQ (3, 4, 5, 7, 9, 10, 11, 12, 15) jumper configurable
- 32-byte FIFO
- DB25 female connectors
- Supports DACK 1-3 and DRQ 1-3
- Size: 5.0"L x 2.2"W
- Weight: 0.5 lbs.



System requirements: IBM PC/AT compatible with 16-bit ISA slot

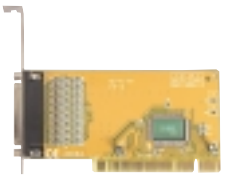
Includes: Manual and drivers on CD-ROM

Part No.	Description	1	10	25
171651	Single parallel card	$17.95	$15.95	$13.95

PCI Ultra High-Speed Parallel Card

Single Ultra High-Speed Port

- Supports ECP and EPP
- 32-byte FIFO
- Transfers data up to 2MB/sec.
- Supports IRQ sharing
- Plug & Play ready
- 1 DB25 female connector
- 32-bit PCI interface
- Size: 4.7"L x 2.2"W • Weight: 0.5 lbs



System requirements: 486/586 and higher compatibles; Windows® 95/98/NT/2000

Includes: Manual and drivers on CD-ROM

Part No.	Description	1	10
171926	PCI single parallel card	$39.95	$35.95

ISA Year 2000 Compliant Card

This card will replace your motherboard's BIOS with its own Year 2000 compliant version, affording your system millennium protection.

- For ISA systems (Intel i.86 based or IBM PS/2) models 286, 386 and 486
- On board precise RTC chip, over 10 years of data retention
- On board advanced CMOS utility supports CMOS backup and restore features
- Size: 4.0"L x 2.8"W • One year warranty



Includes: Installation guide

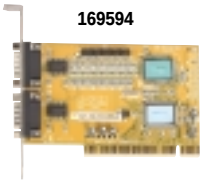
Part No.	Description	1	10
155301	ISA 2000 Compliant card	$19.95	$18.95

Same business day shipping until 6:00 p.m. EST.
See page 182 for Zone Chart



PCI Ultra High-Speed I/O

Serial (16C550) and Parallel Port



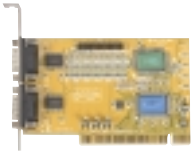
- 32-bit PCI bus with PCI bus 2.1 specification compliant
- Serial ports are software configurable w/ throughputs up to 921.6 kbps
- Supports BPP/SPP mode compliant
- Windows® 95/98/NT 4.0 drivers supported

169594: 2 serial DB9M on card and 1 parallel DB25F panel bracket assembly

Part No.	Description	Wt. (lbs.)	1	10
146691	Single parallel	0.5	**$44.95**	**$39.95**
163707	Dual parallel	0.5	**49.95**	**44.95**
146667	Dual serial (16C550)	0.1	**49.95**	**46.95**
169594	2 serial (16C550) 1 parallel	0.6	**59.95**	**53.95**

PCI High-Speed Combo Card

2 Ea 16C650 Serial/1 ECP/EPP Parallel Port



- 16C650 UART compatible
- 2 ultra high-speed RS232 ports and 1 high-speed ECP/EPP parallel port
- Serial port transfer rate up to 921kB/sec and parallel port up to 2MB/sec
- 32-byte FIFO buffer • Supports IRQ sharing
- 32-bit PCI interface • Plug & Play ready
- 2 DB9 male & 1 DB25 female connector w/ bracket
- Size: 4.7"L x 2.9"W • Weight: 0.6 lbs.

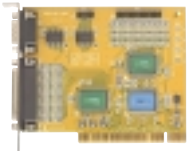
System requirements: 486/586/ Pentium® and higher compatibles; Windows® 95/98/NT/2000

Includes: Manual, DB25F panel bracket assembly and drivers on CD-ROM

Part No.	Description	1	10
172013	2 serial/1 parallel card	**$59.95**	**$53.95**

32-Bit PCI I/O

2 Serial 16C650 and 2 Parallel ECP/EPP/SPP/BPP



- Plug & Play compliant
- Serial port: SUN1889 chipset; 32 byte FIFO; compatible with 16V450.550.650 chip; RS-232 IEEE standard interface; 921kb/sec transfer rate
- Parallel port: SUN1689 chipset, 32 byte FIFO; ACC3203/ST78C36/HT6535 compatible chips; ECP/EPP/SPP IEEE standard interface; 2Mb/sec transfer rate • 2 DB9 male connectors and 2 DB25 female connectors
- Size: 4.7"L x 3.6"W • Weight: 0.8 lbs.

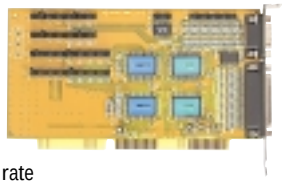
System requirements: 486/Pentium® and higher compatible; Windows® 95/98/NT/2000; available PCI slot

Includes: Manual, cable and CD-ROM drivers

Part No.	Description	1	10
173260	PCI 4-port card	**$64.95**	**$59.95**

ISA 16-Bit Input/Output

2 Serial 16C650 and 2 Parallel SPP/BPP



- Serial port: SUN1699 chipset; 32 byte FIFO; RS-232 IEEE standard interface; 16C650/550/450 compatible chip; 921kb/sec transfer rate
- Parallel port: SUN1689 chipset; 32 byte FIFO; ST78C36/HT6535 compatible chip; SPP/BPP IEEE standard interface; 2Mb/sec transfer rate
- Jumper configurable IRQ (3, 4, 5, 7, 9 ,10, 11, 12, 15), and address
- 2 DB9 male connectors and 2 DB25 female connectors
- Size: 7.0"L x 3.6"W • Weight: 0.8 lbs.

SALE

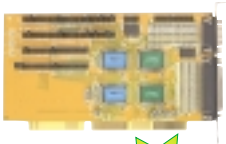
System requirements: 486/Pentium® and higher compatible; Windows® 95/98/2000/NT; available ISA slot

Includes: Manual, cable and CD-ROM drivers

Part No.	Description	1	10
173278	ISA 4-port card	**$24.95**	**$22.49**

ISA 16-Bit Input/Output

2 Serial 16C650 and 2 Parallel ECP/EPP/SPP/BPP High Speed Ports



- Serial port: SUN1699 chipset; 32 byte FIFO; high-speed RS-232 V.24 serial interface; 921kb/sec transfer rate
- Parallel port: SUN1689 chipset; 32 byte FIFO; ECP/EPP/SPP/BPP interface mode; 2Mb/sec transfer rate
- Jumper selectable IRQ (3, 4, 5, 7, 9, 10, 11, 12, 15), address, parallel port mode, DRQ (1, 2, 3) and DACK (1, 2, 3) • 2 DB9 male connectors and 2 DB25 female connectors
- Size: 7.0"L x 3.6"W • Weight: 1.1 lbs.

SALE

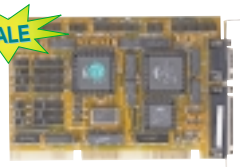
System requirements: 486/586 and higher compatible; Windows® 95/98/2000/NT; available ISA slot

Includes: Manual, cable and CD-ROM drivers

Part No.	Description	1	10
173286	ISA 4-port card	**$31.95**	**$28.95**

ISA 16-Bit Input/Output

4 Serial/3 Bidirectional Parallel Ports



- 16550 UART
- 16 bit card
- Can be used in an 8-bit system with IRQ 3, 4, 5, 7
- Four serial ports – addressable to 3F8, 2F8, 3E8, 2E8
- Three parallel ports – addressable to 3BC, 378, 278
- All ports configurable to IRQ 3, 4, 5, 7, 9, 10, 11, or 12
- Ports are jumper selectable and can be disabled
- Parallel ports are mode selectable
- UART chips emulate 16550 UARTs
- Cables and panel brackets included for all ports
- 3 DB25 female parallel connectors
- 3 DB9 male and one DB25 male serial connectors
- Weight: 1.0 lb.

SALE

Requirements: IBM AT and higher compatibles

Includes: Manual

Part No.	Description	1	10
117971	16-bit I/O card	**$42.75**	**$34.60**

Bidirectional Serial/Parallel Converter

115.2kbps, 512 kb Buffer



- One DB25 female connector, one Centronics 36-pin male connector
- DCE/DTE selectable
- Fully compatible with Windows® 95
- Baud rate: 300 bps - 115,200 bps
- FCC class A certified, CE certified
- LED indicator for parallel busy status
- Stop bits: 1 or 2
- Size: 3.8"L x 2.4"W x 1.0"H
- Weight.: 0.8 lbs. • One-year warranty

Includes: 9 VAC @200 mA adapter

Part No.	Description	1	10	50
182983	Converter	**$59.95**	**$53.95**	**$48.95**

FORCEFRONT® POSTPlus Solution



Solves problems caused by PC / File Server hardware failures. Three digit display provides solution codes. Works even if the PC system or other POST code readers will not.

PCI, ISA & EISA

- Size: 7.0"L x 1.5"W x 9.5"H (package)
- Weight: 1.0 lb. • One-year warranty

Includes: Card, probe and user manual

Part No.	Description	1	10
141356	PostPlus diagnostic card	**$329.95**	**$299.95**

16-Bit Active-Slot PC Extension Interface



Gives you three additional expansion slots.

- Supports: MONO/EGA/ VGA/FDC/HDC, game, and most I/O
- Control card installs inside your PC w/ four external slots
- Two mounting brackets to interface the unit via 37 and 62-pin cables
- Isolates system providing short circuit protection • One-year warranty
- Compatible with 8 or 16-bit cards • Can insert and remove cards while power is on
- Can be powered off the PC or externally using 6-pin connection (P/N 78318 & P/N 78326, pg 55)

System requirements: IBM PC/XT and higher compatibles

Part No.	Description	Size	Weight (lbs.)	1	10
131238	PC slot extender unit	9.5"L x 6.8"W x 1.0"H	5.5	**$249.95**	**$225.95**

"We're here to provide the support you want."



- *Tech Support You Can Count On*
- *30-Day Money Back Guarantee*
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- *99.7% of Products in Stock*
- *Order 24/7, 365 Days a Year*
- *Same Business Day Shipping Until 6:00 p.m. EST.*

ORDER TODAY!
JAMECO.COM

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

PCI Card with 2 USB-A Ports

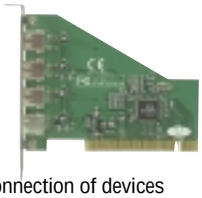


- Dual USB-A female ports
- Plug & Play compatible
- Uses VIA VT83C572 controller chip
- USB specification V.1.1 compatible
- USB legacy BIOS supports
- Operates in USB-aware operating system (Win® 95, Win® 98)
- Size: 4.7"L x 2.0"W • One-year warranty

Includes: Manual

Part No.	Description	1	10	25
155299	PCI USB card	$29.95	$26.95	$23.95

PCI with 4 USB-A Ports

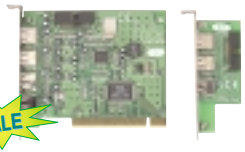


- OPTi 82C862 chipset
- Quad USB-A female ports
- Full compliance with USB Spec Rev 1.1
- PCI specification V.2.1 compliant
- Plug & Play compatibility with external devices
- Auto detects speed and connection of devices
- Tiered star topology supporting up to 5 tiers and 127 devices • Size: 4.9"L x 3.7"H

System requirements: IBM or compatible with 586 or higher processor (Pentium® processor recommended); 64MB of memory; available PCI slot; Windows® 98 or higher

Part No.	Description	1	10	25
189042	PCI USB card	$49.95	$44.95	$39.95

PCI with 7 USB-A Ports



SALE

- 7 USB-A female I/O ports
- VIA VT83C572 chipset
- USB spec V.1.1 compatible
- Fully plug and play compatible
- Intel UHCI (Universal Host Controller Interface) V.1.1 register compatible
- One-year warranty
- Size: (extension board) 1.5"L x 2.9"W
- Size: (main board) 4.8"L x 3.6"W

System requirements: Pentium® processor or higher compatibles; one PCI slot; Windows® 95; 16MB of RAM

Includes: Manual and 9" extension cable

Part No.	Description	1	10	25
172961	PCI USB card	$52.95	$47.95	$42.95

"We're here to provide the support you want."



Order 24 hours a day!
Seven days a week!
Just Call
1-800-831-4242

Dual USB-A PCMCIA Card



- PCMCIA type II card
- Dual USB-A female output ports
- 32-bit
- USB1.1 OHCI USB standard
- Maximum speed: 12Mbps
- Size: 4.6"L x 2.1"W

Includes: Manual

Part No.	Description	1	10
189499	PCMCIA to USB	$89.95	$80.95

External USB 4-Port Hub

USB-A Female Plug & Play! Daisy Chainable!



- 4 USB-A female ports
- Supports throughput up to 12 Mbps as well as OHCI (open host controller interface) and UHCI (universal host controller interface)
- Auto selected self powered and bus powered modes
- Over current protection and detection per port
- Hot swappable • One-year warranty
- Size: 5.0"L x 2.8"W x 1.0"H • Weight: 1.5 lbs.

System requirements: Windows® 95 OSR 2.1 or Windows® 98; PC with USB port

Part No.	Description	1	10
155678	4-port USB hub	$34.95	$29.95

External USB 7-Port Hub

NEW



- 7 USB-A female output ports
- USB-B female root port
- Plug & play compatible
- Allows you to attach 127 USB devices to your PC
- LED indicators for port, status, and power
- Size: 7.9"L x 2.8"W x 1.1"H • Weight: 2.6 lbs.

Includes: 6VDC power adapter and USB-A male to USB-B female cable

Part No.	Description	1	10
191450	7-Port USB hub	$49.95	$44.95

USB Docking Station



Perfect for notebook users and managing multiple peripherals. You only use one cable to manage multiple peripherals instead of multiple cables.

- Input connector: USB-B male
- Output connectors: 2 USB-A female; 2 PS/2 female (keyboard and mouse); RJ45 jack, DB9 male; and DB25 female ports
- LED indicators for power and USB status
- Size: 4.5"L x 2.9"W x 1.0"H • Weight: 2.1 lbs.

Includes: 5VDC @ 2.1A wall transformer, USB-A male to USB-B male cable, and CD-ROM drivers

Part No.	Description	1	10
190553	USB docking station	$99.95	$89.95

USB 3-Button Mouse

USB-A Connector



SALE

- USB-A male connector
- Ergonomic design for comfortable feel
- Color: gray
- One year warranty
- Size: 4.4"L x 2.4"W x 1.0"H

Part No.	Description	1	10
155686	USB-A ergonomic mouse	$6.75	$6.09

External USB 3-Port Hub

With Serial and Parallel Port Converter



SALE

- Supports throughput up to 12Mbps
- Connectors: USB-B female input; 3 USB-A female output; DB25 female output; DB9 male output
- LED indicator for link status
- Size: 5.4"L x 3.0"W x 0.9"H • Weight: 2.1 lbs.

System requirements: Windows® 95 OSR 2.1 or Windows® 98 and PC with USB port

Includes: Manual, 5VDC @ 2A power supply and USB-A male to USB-B male cable

Part No.	Description	1	10
172785	3-port USB hub	$74.95	$66.50

USB Manual Switch Box



Back

Front

- Allows 4 PCs to share a single USB device
- Input connectors: 4 USB-B male connectors
- Output connectors: 1 USB-A female or 1 USB-B male connector
- Push button type switch for host selection
- Bus powered
- Size: 3.0"L x 3.0"W x 1.7"H

Part No.	Description	1	10
189464	4 computers to 1 device	$19.95	$17.95

USB Type A Interlink Cable

Host to Host Communication



SALE

- 6' USB-A male to male cable
- Single chip (ASIC) USB host-to-host communication
- High speed data transfer from 4Mbps to 8Mbps
- Single cable solution for data communication

System requirements: 586DX-66 or higher compatible; 4-pin USB port; Windows® 95/98/NT

Includes: 3.5" diskette USB to USB drivers

Part No.	Description	1	10	25
164030	USB interlink	$36.95	$32.95	$29.95

USB-A to Infrared Transceiver



Convert your computer's unused USB-A port to an infrared communications port.

- Data transmission rate: 4Mbps/sec.
- Meets IrDA V1.0 and V1.1 specifications
- Input connector: USB-A male connector
- Size (including base): 3.2"L 2.3 x"W x 1.8"H

System requirements: Windows® 98/2000/ME; USB-A port

Includes: Installation manual and 3.5" disk drivers

Part No.	Description	1	10
190941	USB to IrDA transceiver	$54.95	$49.49

ATEN USB-to-Centronics Printer Cable

USB-A Connector



- Full compliance with the USB spec V.1.0
- USB-A male to 36-pin male centronics connector
- Supports true bidirectional communication
- Applicable to standard and bidirectional printers

Part No.	Description	1	10	25
155352	6' USB cable	$29.95	$26.95	$23.95

USB Cables



169359 175417 175425

169539/169367: USB-A (M) to USB-B (M)
175417: USB-A (M) to USB-B (F)
175425/175433/175541: USB-A (M) to series A (M)

USB A to B

Part No.	Description	1	10	25
175417	USB A-B cable 3'	$3.95	$3.49	$2.95
169359	USB A-B cable 6'	4.95	4.49	3.95
169367	USB A-B cable 10'	5.95	5.25	4.59

USB A to A

Part No.	Description	1	10	25
175425	USB A-A cable 3'	$3.95	$3.49	$2.95
175433	USB A-A cable 6'	4.95	4.49	3.95
175441	USB A-A cable 10'	5.95	5.25	4.59

USB-A Network Cable



17 Host-to-Host Connections

- USB host-to-host communication
- Construct USB network with up to 17 hosts with USB hub (recommend P/N 155678, 142)
- Maximum data transfer rate: over 5Mbps
- Sharing resources such as printers, CD-ROMs, modems, and scanners • Hot PNP for easy use
- Support TCP/IP, NetBEUI, IPX/SPX protocols
- Compliant with USB spec version 1.1
- Cable length: 6' USB-A to USB-A male connectors
- One-year warranty

SALE

System requirements: Intel Pentium® compatible or higher; 1 standard USB port; Windows® 98

Includes: 3.5" diskette USB device driver

Part No.	Description	1	10	25
172970	USB network cable	$42.95	$37.95	$34.50

USB-A to PS/2 Mini DIN 6 Adapter



- Input connector: USB-A male
- Output connectors: two 6-pin mini DIN
- Compliant to USB specification 1.1
- Power consumption: 500mA
- Supports energy saving suspend and remote resume operations
- Plug & Play compatible
- Cable length: 30" • CE approved
- Size: (unit) 2.3"W x 2.7"D x 1.1"H

CE SALE

System requirements: IBM PC/AT compatible system, Windows® 95/98/NT, and USB-A

Includes: Manual

Part No.	Description	1	10	25
168751	USB-A to PS/2	$29.95	$26.95	$24.95

USB-A to Ethernet (RJ45) Adapter



- Connects to PC or laptop's USB port and provides one 10baseT ethernet RJ45 port
- Input connector: USB-A female
- Compliant with IEEE-802.3 10baseT and Version 1.0 and 1.1 USB standards
- Supports PnP and hot swapping
- Bus powered design, no external power source required • CE approved
- Size: (unit) 1.5"W x 2.2"D x 1.4"H

CE SALE

System requirements: PC or notebook with USB support and Windows® 95/98

Includes: 3.5" diskette & 3' USB-A M/USB-B M cable

Part No.	Description	1	10	25
168815	USB-A to ethernet ..	$45.95	$39.95	$37.95

USB-A to Joystick (DA15) Adapter



- Fully compatible with any 15-pin game port PC game controller
- Mode switch selector for maximum compatibility and flexibility
- USB Plug & Play
- Input connector: USB-A male
- Output connector: DA15-pin female connector
- Size: 3.2"L x 2.3"W x 1.3"H

System requirements: 586 or higher compatible; available USB-A port or Hub; Windows® 98 or higher

Includes: Manual and 3.5" drivers

Part No.	Description	1	10
189510	USB to game port adapter	$39.95	$35.95

USB Gender Adapters

USB-A to USB-B



169375

169383: USB-A (M) to USB-B (F)
169375: USB-A (F) to USB-B (M)

Part No.	Description	1	10	25
169383	1.3"L x 0.4"W	$6.95	$6.35	$5.59
169375	1.7"L x 0.6"W	6.95	6.35	5.59

USB-to-Parallel Printer Adapter



- Single chip (ASIC) USB to parallel host-to-host communication
- USB full speed communication and bus powered (12Mbps data throughput)
- USB specification Rev 1.1 compliant
- IEEE 1284 bi-directional parallel interface compliant
- USB printer class specification 1.0 compliant
- Size: 2.7"L x 2.4"W x 1.0"T

System requirements: Standard USB 4-pin port; Windows® 98/2000/NT 5.0

Includes: 3.5" diskette drivers, 5'6" USB-A to USB-B male cable, and manual

Part No.	Description	1	10	25
173008	USB to para. adptr	$30.95	$25.95	$23.95

USB-to-RS232 Serial Converter





- Real Plug & Play and Hot-Plugged device
- 1 upstream port with USB-B female connector
- 1 downstream port with DB25 female connector
- Compliant with USB specification Rev. 1.1
- No power consumption
- Automatic USB protocol handling
- Size: 3.0"L x 2.2"W x 0.8"H • Weight: 0.6 lbs.

System requirements: IBM compatible PC with Pentium® processor and USB connectivity, Windows® 98/OSR 2.1 & 16MB of RAM

Includes: 6' USB-A male to USB-B female cable and 3.5" driver diskette

Part No.	Description	1	10
164048	USB-B to serial converter	$49.95	$44.95

4-Conductor USB Cable



- 150 volt rating
- Temperature rating: 80˚C
- Red and black wire: 24 AWG stranded (7/32)
- Green and white wire: 28 AWG stranded (7/36)

• **Prepackaged: order in increments of 25', 100' or 1000'**

Part No.	Description	25 ft.	100 ft.	1000 ft.
173139	USB cable	$6.75	$19.00	$155.00

USB PenCam Digital Camera

Still and Streaming Video Capable

New Price



- USB Interface
- Compatible with Windows® 98/ 2000 and ME
- High resolution 352 x 288 (20 still shots)
- Low resolution 176 x 144 (80 still shots)
- Up to 12 seconds of AVI streaming video
- Up to 2-hour battery life (full-time usage)
- 10-second self timer
- Size: 4.8"L x 1.3"W x 0.8"D
- One-year warranty

Requires: 2 AAA batteries (not included)

Includes: CD-ROM software bundle with Pocket Cam Manager, Photo Express 3.0, Photo Explorer 3.0, COOL 360 1.0, Video Live Mail Plus 3.11b, and Microsoft Net Meeting 5.0; 5' USB cable; camera stand and camera clip

Part No.	Description	1	10
177199	Digital PenCam	$79.95	$69.95

DEXXA USB WEBCAM w/ Motion Detection Software



- Create video images and send via email
- Capture still photos using motion detection software
- USB-A male interface
- Compatible with Windows® 98/ME/2000
- CMOS sensor
- Manual focus lens
- Image size: 352 x 288 pixels
- Frame rate: up to 30 frames per second
- Size: 2.3" diameter • Weight: 1.0 lb.

NEW

System requirements: IBM PC with Pentium® 233MHz or higher compatible, Windows 98/ME/2000, CD-ROM, available USB port

Includes: Mounting base, installation guide, CD-ROM drivers and software

Part No.	Description	1	10
191775	USB WEBCAM	$39.95	$35.95

USB-A Female Cable



- Supports data transfer rates of 12Mbps
- Allows connection of 2 devices
- Dual USB-A female connectors

Part No.	Description	1	10	25
144813	USB-A panel mount	$6.95	$6.25	$5.59

USB Active Extender Cables



191441

- Extends the distance between USB devices by up to 16'
- Complies with USB electrical and timing specifications
- Compatible with high and low speed USB devices
- Interface: USB-A male to USB-A female
- Size: (adapter): 2.8"L x 1.5"W x 0.6"H
- Weight: 1.0 lb.

NEW

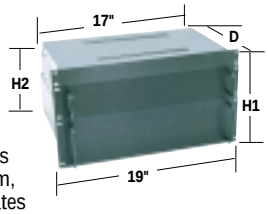
Includes: USB-A male to USB-B female cable

Part No.	Description	1	10	25
191433	8' USB extender ...	$24.95	$22.49	$19.95
191441	16' USB extender ...	29.95	26.95	23.95

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

19" Rack Mount Enclosures

Perfect for equipment setup in home, studio or laboratory.



- Ventilation holes on all sides
- Front and back panels are steel w/ aluminum, pre-punched face plates
- Top, bottom, sides durable 0.035" steel
- Front panel: 0.12" Thick
- Black front panel
- All enclosures have handles except P/N 132812

Includes: mounting screws

Part Number	Dimensions (In.) H1	H2	D	Weight (lbs.)	Pricing 1	10
132812	1.73	1.25	9.75	6.2	$34.95	$29.95
132821	3.46	3.0	9.75	7.9	41.95	37.95
132839	3.46	2.88	11.75	9.1	46.95	41.95
132847	5.22	4.75	11.75	10.6	51.95	46.95
132855	5.22	4.75	13.50	11.8	64.95	57.95
132863	8.56	8.0	13.5	15.4	84.95	74.95

19" Industrial Chassis with PC-AT 300-Watt Power Supply

EIA RS-310C Compliant



- Back panel with 12 open slots
- Supports one 3.5" and two 5.25" external accessible bays and two 3.5" internal bays
- Use with 14-slot PC-BUS compatible backplane P/N 135061, above right
- Removable disk drive bay w/ shock resistant design
- Front 12VDC cooling fan with removable air filter screen and mesh • Waterproof front panel
- Color: gray • Weight: 37 lbs.
- Size: 16.8"L x 16.9"W x 7.0"H

Includes: Mounting hardware

Part No.	Description	1	10
146851	19" chassis w/ 300W PS	$339.95	$299.95

19" Rack Mount Enclosure for 14" Monitor



- Clear glass front panel
- Hinged door for accessing monitor controls
- Color: gray
- Size: 19.0"W x 15.1"D x 14.0"H
- Weight: 30 lbs.

Part No.	Description	1	10
136021	Enclosure for 14" monitor	$269.95	$244.95

19" Rack Mount Drawer with Keyboard and Trackball



- Occupies a single unit (IU) rack space
- 5-pin DIN connector for keyboard and DB9 connector for trackball
- Color: gray
- Size: 19"W x 13"D x 2.8"H
- Weight: 18 lbs.

Includes: Wrist pads, module and software

Part No.	Description	1	10
150471	Rack mount KB drawer	$239.95	$216.95

Same business day shipping until 6:00 p.m. EST.
See page 182 for Zone Chart



16-Bit ISA-PCI-PICMG Passive AT Backplane



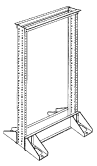
- Ten 16-bit ISA slots, four PCI slots and two PICMG (48-bit) slots
- LED indicators for ±5V/±12V
- Compatible with P/N 146851 (left)
- Size: 12.5"L x 10.0"W
- Weight: 1.9 lbs.

Part No.	Description	1	10
135061	Passive AT backplane	$99.95	$89.95

Relay Rack & Rack Panels

Rack:
- Black powder coat finish
- 10-32 threaded holes
- Used with 19" wide panels
- 16 gauge CRS base • Size: 84"H
- 1/8" aluminum side rails
- Size (at base): 19.8"W x 15.3"D x 84"H

133751



19" Wide Panel:
- 10-gauge black aluminum
- Size: 1.75"H



133276

Part No.	Description	Wt. (lbs.)	1	10
133751	Relay rack	21.8	$169.95	$149.95
133276	Rack panel	0.4	10.75	9.95

Rackmount Card Cage

SALE



- For 19" rackmounts
- 24 slots
- Weight: 6.3 lbs.
- Fits card size: 6.5"L x 5.5"W
- Size: 6.5"L x 17.3"W x 6.1"D

Part No.	Description	1	10	25
172099	Rackmount card cage	$6.95	$5.90	$4.99

Black Velcro Cable Tie

SHAXON



- Has buckle and mounting hole

Part No.	Product No.	Length	1	10	50
149139	MD889BK	9"	$1.19	$1.09	$.99

Cabinet Mounting Plate for 19" Cabinet



- Use as industrial chassis mounting plate for servers, PCs or patch panels
- Made of industrial grade steel and aluminum
- Size: 19.0"W x 15.8"D x 3.5"H
- Color: beige

Part No.	Description	1	10
149500	Cabinet mount plate	$34.95	$31.95

Analog and Digital Data Acquisition and Control Module

31 Digital I/O & 8 Analog Channels



- Applications: education, engineering, robotics, remote monitoring, project development and diagnostics
- Operates from any host with an RS-232 port capable of 19,200 baud
- Analog: 8 analog channels with 0-5 volt input
- I/O port configuration: port a - 6 digital I/O lines or 5 analog channels; port b & d - 8 digital I/O lines; port c - 6 digital I/O lines; port e - 3 digital I/O lines or 3 analog channels
- Size: 4.4"L x 3.2"W x 1.0"H • Weight: 2.0 lbs.

Includes: Power supply, cables and 3.5" software

Part No.	Description	1	10
164072	Serial port data module	$129.95	$119.95

Embedded CPU Card for Intel Pentium Processors



- Socket 7-type
- Support Intel® Pentium® and MMX 75Mhz to 233MHz, AMD K5 and K6, Cyrix 6x86, and M2 CPU
- Intel 82430TX2.1 and Winbond I/O chipset
- 128KB award license bios
- Four 72-pin SIMM socket or two 168-Pin DIMM socket expandable up to 128MB of memory
- On-board 512kb pipelined burst synchronous cache
- Reserved socket for DiskOnChip from M-system supports up to 72MB flash memory disk
- On-board: 2 IDE ports supports up to 4 IDE devices; floppy disk port supports up to 2 floppy drives; two serial ports, parallel port, two 5-pin header USB ports, 2 PS/2 (keyboard and mouse)
- Size: 13.3"L x 4.9"W • Weight: 2.1 lbs.

SALE

Includes: Manual, cables, and hardware

Part No.	Description	1	10
174351	Embedded motherboard	$259.95	$235.95

PICMG Embedded CPU Card for Intel Pentium® Processors

Industry wide compatiblity.



- Microprocessor: Intel Pentium® 75/90/100/133/166MHz (not included, see pg 13)
- System memory: 8-128MB, 4 sockets for 72-pin SIMMs (not included, see pg 13)
- Pipelined burst cache expandable to 512kb
- Two RS232 serial ports (16550 compatible includes FIFO)
- One multi-mode parallel port (SPP/EPP/ECP)
- Two PCI IDE ports and floppy drive interface
- 128KB award license BIOS • Watchdog timer
- Built-in PC-104 expansion bus connector
- Size: 13.4"L x 4.9"W • Weight: 2.1 lbs.
- One-year warranty

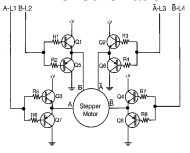
Includes: Manual, cables, header and hardware

Part No.	Description	Price
149286	Embedded motherboard	$249.95

12-Bit Analog/Digital DAC and Stepper Motor Control Board



Driver Schematic



- High speed serial port interface up to 230,400 bits/sec
- 4 channels with precision signal conditioning – 100mV, 2.5V and 5.0V input
- 24 digital I/O (TTL compat-ible),11 analog channels with 12-bit resolution
- PWM, period measurement & stepper motor functions
- Free 32-bit DLL, OCX and Labview driver for rapid system development • One-year warranty
- Size: 6.0"L x 2.6"W • Weight: 0.7 lbs.

Includes: Manual

Assembled

Part No.	Description	1	10
109911	Analog/digital DAC board	$133.95	$119.95

Suggested Components for Above Circuit:

Part No.	Qty	Designator	Description		Price
29655	4	R1-R4	1kΩ,1/4W resistor	(10 pc. min.)	$.19
30859	4	R5-R8	330Ω,1/4W resistor	(10 pc. min.)	.19
25857	4	Q1-Q4	MJE 3055T transistor		.65
76970	4	D1-D4	1N4003 diode	(10 pc. min.)	.04

Relay Outputs and Opto-Isolated Digital Inputs in a PC

SALE

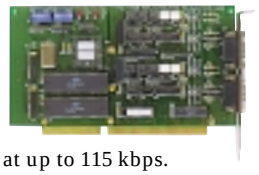


- 8 SPDT electromechanical relay outputs, 120VAC @ .5A or 30VDC @ 1A
- 8 opto-isolated digital inputs
- LED indicators to show activated relays • ISA Bus
- Jumper selectable isolated/non-isolated input signals • Relay driver circuits
- 37-pin female D-sub connector • One-year warranty
- Easy to use and program • Weight: 1.0 lb.

Includes: Matching male connector - ready to wire

Part No.	Product No.	Description	Price
125655	PCL725	Relay & D/I card	**$169.95**

ISA Dual-Port RS422/485 Card for Long Distances



This new upgraded card offers the 16C550 UART that buffers data into 16-byte packets drastically reducing CPU load and increasing efficiency at up to 115 kbps.

- 2 or 4 wire operation in RS422/485 modes
- Supports Tx, Rx, RTS and CTS signals
- IRQ: 3, 4, 5, 6, 7, 9, 10, 11, 12 or 15
- I/O addressing from 200H to 3F8H
- Selectable as COM 1-4
- Utilizes on-board optical isolators to eliminate ground loops for reliability in harsh environment
- One-year warranty • Weight: 1.0 lb.

Includes: PC-ComLIB software

Part No.	Product No.	Description	1	10
136434	PCL745B	RS422/485	**$199.95**	**$179.95**

RS232 to RS485/422 Bidirectional Converters



117701

- Controlled by RTS signal
- DCE and DTE selectable
- Point-to-point and multidrop operations
- RS485: terminal block and RJ11 connections
- RS232: DB25 female connector
- Data rate: 1MB/second
- 4-wire full duplex or 2-wire half duplex
- Cable length: 4000' maximum
- Input: 110VAC; except P/N 129218 220VAC input
- Weight: 0.9 lbs. • One-year warranty

Now a European Version!

#122956: features RS485SI optical isolation: 2000V
†129218: features 220VAC input

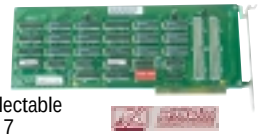
Includes: 9VDC @ 300mA power adapter

Part No.	Description	1	10
117701	RS232-485/422	**$52.95**	**$46.95**
122956#	RS232-485/422 OPT ISO ...	**94.95**	**84.95**
129218†	RS232-485/422 (220 VAC)	**42.95**	**36.95**

Over 6,000 Products Stocked

- → *Integrated Circuits*
- → *Interconnect Devices*
- → *Electronic Components*
- → *Power Products*
- → *Opto Electronics*
- → *Wiring Accessories*
- → *Electromechanical Devices*
- → *Computer Products*

ISA 48-Bit Digital I/O Card



- 48 TTL/DTL I/O lines; 8-bit ports
- Software programmable
- Interrupts: jumper-selectable to IRQ 2, 3, 4, 5, 6 or 7
- Buffer for high sinking capacity
- Added pull-up resistor: CMOS/DRY CONTACT compatible • ISA bus
- IBM PC/XT and higher compatible
- Size: 10.2"L x 3.9"W • One-year warranty

Part No.	Description	1	10
136784	48-bit dig. I/O card	**$99.95**	**$89.95**

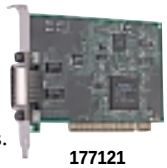
ISA GPIB Interface Card



- On-board firmware ROM callable for user's application program
- Complete Listener/Talker/ Controller (LTC) capability
- ISA Bus
- Data transfer rate over 300k bytes/sec.
- RF-shielded IEEE-488 receptable • 6 interrupt levels
- Selection of 3 DMA channels using host DMA controller • Size: 5.0"L x 4.2"W

Part No.	Product No.	Description	1	10
136696	AX5488	GPIB card	**$189.95**	**$169.95**

PCI & PCMCIA GPIB Interface Cards



177121

The PCI GPIB IEEE-488.2 interface converts any PCI bus personal computer into an instrumentation control and data acquisition system. Connect up to 14 instruments using standard IEEE-488 cables.

- IEEE-488.2 standard interface
- Industry standard 32-bit PCI bus
- 1024 word FIFO buffer
- Greater than 1MB/s transfer rates
- Plug & Play – no switches or jumpers
- Windows® 95, Windows® NT, Windows® 3.1 and DOS compatible

Part No.	Description	1	10
177121	PCI-GPIB-1M card	**$399.95**	**$359.95**
164427	PCM-GPIB (PCMCIA bus)	**289.95**	**259.95**

RS232 Interface PCMCIA Card



PC card / PCMCIA-based serial port card.

- Low cost single port RS232 interface
- Uses 16550 UART
- 5, 6, 7 or 8 data bits
- Odd, even or no parity
- 115k baud data rates
- Configured as COM1, COM2, COM3 or COM4
- PCMCIA type II compliant

Includes: 1' cable

Part No.	Description	1	10
164451	PCM-COM232 card	**$99.95**	**$89.95**

Short Haul Modem



- Up to 38,400 baud
- Will communicate over 6.3 miles (max.) of cable
- No external power required
- DCE/DTE selectable
- Xon-Xoff or hardware handshaking
- RS232 interface (DB25 female)

Part No.	Description	1	10	25
116581	Short haul modem	**$29.95**	**$26.95**	**$23.95**

Take a look at pages 179 - 180 for Jameco's complete selection of books



ISA 24-Bit Digital I/O Board



- Supports a broad range of software
- TTL level digital I/O: 24-bits as (three) 8-bit ports
- Input current: ±10µA
- Logic low level: -0.5 to 0.8V (max.)
- Logic high level: 2 to 5V (max.)
- Output low sink current: 2.5mA @ 0.45V
- Output high source current: -2.5mA @ 2.4V
- IBM PC/XT/AT/ PS/30 or compatibles
- Power consumption +5V: 400mA
- Size: 4.5"L x 3.9"W

Part No.	Description	1	10
151511	CIO-DIO24 I/O card	**$68.95**	**$61.95**

Diagnostic Card for PCI-Bus Systems



This is the first diagnostic card for monitoring Power-On-Self-Test results in systems using PCI-Bus architecture.

- Plugs into any PCI I/O slot
- Digital indicators for every POST code error
- LEDs for monitoring power (DC): +12, -12, +5, +3
- LEDs for clock and reset failure
- Comprehensive manual w/ error codes from all major BIOS manufacturers including AMI, AWARD, PHOENIX and more • One-year warranty

Part No.	Description	1	10
135108	PCI-POST diagnostic card	**$199.95**	**$179.95**

PC-Based Analog & Digital Data Acquisition & Control System



For programmable voltage output and measurement, transducer interfacing, wave form recording, contact closure monitoring and relay control.

- 8 A/D inputs with 12-bit resolution
- 32 digital I/O, TTL compatible (16 in, 16 out) • ±5V A/D input range
- 20-point wiring terminal daughterboard
- 25kHz maximum A/D sampling rate
- One D/A output, double buffered
- ISA bus • Weight: 2.5 lbs. • One-year warranty

Includes: Software utility CD-ROM w/ DOS drivers

Part No.	Product No.	Description	1	10
28290	PCL711S	PC-MultiLab card	**$349.95**	**$319.95**

Part Number Color Code Legend
NEW | SALE | REFURBISHED | CLOSEOUT

ISA 12-Bit Analog and Digital I/O Board

- 8-channel A/D
- Dual D/A (AO version only)
- 16-bits digital I/O
- 12-bit input resolution with input range of ±5V
- 20kHz max. sampling rate
- Analog outputs (AO version only): two 12-bits with output range of ±5V
- Digital input/output: 16-bits TTL, 8 in/8 out
- Size: 4.2"L x 4.2"W


193914

NEW

Includes: InstaCal: installation, calibration and test software

Part No.	Description	1	5
193906	CIO-DAS08/JR	$147.95	$132.95
193914	CIO-DAS08/JR-AO	197.95	182.95

PCI 12-Bit, Analog Input & Digital I/O Board

- 8-channel A/D
- Analog input resolution: 12 bits @ 50kHz sample rate (max.)
- Data transfer: software polled, may be IRQ driven (external or internal sources)
- Input range and impedance: ±5V; 10MΩ min.
- Digital input/output: 3 input/4 output; TTL compatible
- Three 16-bit down counters (one 82C54)
- Plug & Play
- Size: 4.2"L x 5.2"W



NEW

Includes: InstaCal: installation and test utility software

Part No.	Description	1	5
193922	PCI-DAS08 I/O card	$247.95	$222.95

PCI 48-Bit High-Drive Digital I/O with 15 16-Bit Counters

- **Digital I/O type: 8255 emulation, mode 0**
- Number of channels: 48 I/O
- Configuration: 4 banks of 8, 4 banks of 4, programmable by bank as input or output
- Output high: 2.4V min. @ -15mA
- Output low: 0.5Vmax. @ 64mA
- **Counter type: 82C54**
- Configuration: 15 down-counters per 82C54, 16-bits each
- Clock input frequency: 10MHz max.
- Size: 4.2"L x 6.9"W



NEW

Part No.	Description	1	5
193931	PCI-DIO48H/CTR15	$247.95	$222.95

Same business day shipping until 6:00 p.m. EST.
See page 182 for Zone Chart

Terminal Boards, Enclosures & Cables

- Low cost
- Small footprint

NEW

Terminal Boards

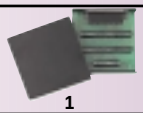
- Accepts 12-22 AWG wire


193965

Part No.	Description	For use with	1	5
193965	CIO-MINI37	CIO-DAS08JR & PCI-DAS08	$68.95	$62.10
193990	CIO-MINI50	PCI-DIO48 H/ CTR15	68.95	62.10

Enclosures

- High impact plastic


193973
Shown w/ board (not included)

Part No	Description	For use with	1	5
193973	ENCMINI-37	CIO-MINI37	$28.95	$26.10
194001	ENCMINI-50	CIO-MINI50	28.95	26.10

Cables


193949 193957 193981

193949: flat ribbon cable with 37-pin female D-type connectors
193957: shielded cable w/ molded 37-pin connectors
193981: 100-pin IDC connectors

NEW

Part No.	Description	For use with	1	5
193949	C37FF-2	CIO-DAS08 & PCI-DAS08	$24.95	$22.50
193957	C3FFS-5	—	34.95	31.50
193981	C100FF-2	PCI-DIO48H/ CTR15	48.95	44.10

Graphical Programming for Visual Basic and a Universal Library

SoftWIRE is a graphical programming package for Visual Basic; one window holds the graphical program while the other holds the user interface on a Visual Basic form. By simply using the 130+ functions included with the software, you can click on the function, make connections to the controls with wires, provide your options, then run the program. While you are creating all these functions and connections, the software also provides the code in Visual Basic.



NEW

The Universal Library is a library of 65+ syntax commands in different programming languages. The library provides these commands plus the syntax format in its respective language.

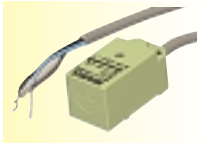
System requirements: PC with Pentium® 90 or higher; Windows® 95/98/2000/ME/NT4.0; Microsoft® Visual Basic 6.0 or later; VGA or higher resolution monitor; any Measurement Computing DAQ or GPIB board

Part No.	Description	1	5
194010	Universal Library	$48.95	$43.95
194044	SoftWIRE4/VB-Student	48.95	43.95
194036	SoftWIRE/VB-1YR	197.95	177.95
194028	SoftWIRE/VB-PPD	493.95	443.95

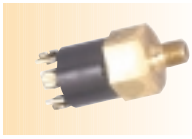
The Basics of PC-Based Data Acquisition, Analysis, and Control



Using your PC as a platform for the acquisition, analysis and control of physical data is both powerful and economical. Simply adding a card with analog and digital data acquisition and control capability, along with easy-to-use software, turns your desktop or laptop computer into a sophisticated instrumentation system.



A PC based data acquisition and control system is comprised of five fundamental elements: sensors / transducers, analog-to-digital conversion with signal conditioning, digital sensing, analog and / or digital control, and software. The first consideration is the physical parameter or condition you wish to measure and record; it could be temperature, pressure, acceleration, vibration, sound intensity, and much more. Transducers convert physical parameters to electrical signals. Many transducers require signal conditioning (amplification, filtering, etc.), which is usually provided by the data acquisition card.



See Sensors On Page 49

For most PC based data acquisition systems, analog-to-digital conversion is typically handled with a plug-in board or card – commonly known as DAQ boards (PCI or ISA type). The key function of a DAQ board is to convert the analog signals coming in from the sensors into digital signals that the PC can deal with. The primary specifications to look for are number of channels, resolution, and sample rate.

Virtually all DAQ boards also have the capability of sensing digital input signals; for example, switch contacts. These signals are often used to initiate acquisition of analog data.



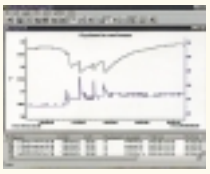
Once the data has been acquired and processed by the PC, the analog and digital output capability of a DAQ board can be used for control; i.e., "closing the loop".

A popular software program, SoftWIRE, is built in two windows; the first window holds the graphical program while the other window holds the user interface on a Visual Basic form. Also helpful is the Universal Library software, which holds at least 65+ commands in different syntax forms for various languages.

BoxCar Software for Windows®

onset computer corporation

For Hobo® Data Loggers



194167

Two Windows® applications for logger and data management: BoxCar 3.6 provides basic launch, data readout, plotting and data export capabilities. BoxCar Pro 4.0 is a powerful enhanced version of BoxCar 3.6, offering added features for graphing, data analysis, data export and simultaneous management of multiple loggers.

Easy Logger Set-up:
- Select from predefined sampling intervals (0.5 seconds to 9 hours) or program your own custom intervals
- Set start time and memory modes (stop when full, wrap-around when full)
- Check battery status
- Export data to Microsoft Excel, Lotus 1-2-3, or any ASCII compatible programs

BoxCar 3.6: NEW
- Tool bar provides easy access to commonly used functions
- View data in tabular and graphical formats
- Display multiple plot windows at once

BoxCar PRO 4.0:
- Powerful graphing capabilities allows user to compare multiple parameters on one graph. Use the zoom and axis-control tools to focus in on the data of interest
- Analysis functions can be used to extract key information from logged data
- Other features include long file names, print preview, print graphs and series details, multiple logger launch

Part No.	Product No.	Description	1	10
194159	BC3.6-ON	BoxCar 3.6	$13.95	$13.30
194167	BCP4.0-ON	BoxCar PRO 4.0	94.95	89.95

What is a Data Logger?

A data logger is a small battery-operated electronic instrument that measures and records physical parameters such as temperature, humidity, light intensity or any physical value represented by a DC voltage over time. They are equipped with a microprocessor, data storage, and sensor. Some models allow the use of external sensors.

The data logger is connected to a personal computer and the turn-key software is used to select logging parameters such as sampling intervals and sampling period; start time is also programmed and determines when the logging is initiated. The data logger is then disconnected from the PC and deployed in the desired location.

Used mainly in remote areas or anywhere the convenience of battery power to record measurements is wanted, they are ideal for those involved with field studies, transportation monitoring, HVAC, troubleshooting, quality studies, general research, and educational science.

Examples of typical applications are: deployed in Alaskan glaciers in the hopes of finding answers to the global warming concerns; used by Cascade Designs, makers of Therma-Rest® sleeping bags to determine thermal comfort ratings of their outdoor products; the state of Kansas used the data loggers for fuel savings evaluations in residential homes; helps to improve the performance of radio controlled race cars; and manage many aspects of a Laundromat business.

H8 Data Loggers

onset computer corporation

Temperature/Relative Humidity/Light Intensity/External Input

NEW



194061

- Sensors included, except external input
- Requires BoxCar software (left)
- Capacity: 7943 measurements total except 194108/194116 are 32,520 measurements total
- User selectable sampling intervals 0.5 sec. to 9 hours, recording time to one year
- Nonvolatile EEPROM memory retains data even if battery fails
- Internal temperature sensor on 4" wire can extend from case
- Programmable start time/date • User replaceable battery lasts one year
- Operating ranges: -4˚F to +158˚F (temperature), 0 to 95% relative humidity (non-condensing, non-fogging), 2 to 6000 foot candles light intensity (lumens/ft²), 0 to 2.5VDC external input
- Size: 2.4"L x 1.9"W x 0.8"D; (except P/N 194116: 5.5"L x 5.4"W x 1.4"D)

Part No.	Product No.	Description	1	10
194052	H08-001-02	1 channel temperature	$57.95	$54.95
194061	H08-002-02	2 channel; temp./external input	63.95	59.95
194079	H08-003-02	2 channel; temp./relative humidity	83.95	79.95
194108	H08-006-04	Indoor 4 channel; external input	83.95	79.95
194095	H08-004-02	4 channel; temp./relative humidity/light intensity/external input	93.95	89.95
194087	H08-007-02	2 channel; temp./relative humidity/external input	93.95	89.95
194116	H08-008-04	Outdoor/industrial; 4 channel; external input	167.95	159.95

H8 PRO Series Data Loggers

onset computer corporation

Temperature/External Temperature/ Relative Humidity



194132

- Requires BoxCar software (left)
- Weatherproof (RH sensor requires protection from rain or direct splashing)
- High accuracy: ± 0.30F and ±3% RH
- Capacity: 65,291 standard resolution measurements or 32,645 high resolution measurements NEW
- 0 – 100% RH range including condensing environments
- User-selectable resolution on temperature measurements (8 or 12 bit)
- Programmable start time/date
- User-selectable sampling intervals: 0.5 seconds to 9 hours, recording time to three years
- Nonvolatile EEPROM memory retains data even if battery fails • Size: 4.0"L x 3.2"W x 2.0"D

Includes: Sensors

Part No.	Product No.	Description	1	10
194124	H08-030-08	1 channel, temperature	$127.95	$121.95
194132	H08-031-08	2 channel, temp./external temp.	167.95	159.95
194141	H08-032-08	2 channel, temp./relative humidity	157.95	149.95

External Sensors & Cables

onset computer corporation

All cables and sensors can be plugged directly into the external input jacks of the HOBO® H8 Data Loggers (above).



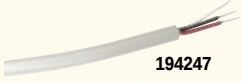
194175



194239

Temperature sensors:
- Range: -40˚F to +212˚F in air (P/N 194212: +32˚F to +110˚F)
- Accuracy: ±0.9˚F @ 70˚F (P/N 194212: ±0.7˚F)
- Resolution: 0.7˚F @ 70˚F (P/N 194212: ±0.3˚F)
- Response time in still air: 4.5 min. typical (P/N 194212: 7.5 min. typical)

Cables: P/N 194239: range – 0 to 20.1mA; accuracy: ±0.1mA; ±1% of reading; resolution 0.4% of full scale NEW



194247

Part No.	Product No.	Description	1	10
194175	TMC1-HA	1' temp. sensor	$22.95	$21.85
194183	TMC6-HA	6' temp. sensor	24.95	23.75
194191	TMC20-HA	20' temp. sensor	29.95	28.50
194204	TMC50-HA	50' temp. sensor	34.95	33.25
194212	TMC6-HB	6' temp. sensor, high accuracy	39.95	37.95
194221	TMC6-HC	6' temp. sensor, stainless steel probe	69.95	66.50
194239	CABLE4-20mA	18" cable,20mA 3.5" tinned leads	12.95	12.35
194247	Cable2.5-Stereo	6' voltage input Stereo cable, 0.5" tinned leads	5.95	5.70

We're Here To Serve You

Order 24 hours a day
7 days a week

CALL TODAY!
1-800-831-4242



Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

Macintosh® to IBM Monitor Adapters and Cables

Allows use of Macintosh® computer with IBM monitor (DA15 male to HDDB15 female).



126439

126439:
- 10 position DIP-switch supports 6 kinds of signal modes and resolutions
- Size: 2.0"L x 1.5"W
- One-year warranty



SALE

119538

119538:
- For Power Macintosh® 6100 and 7100 computers
- Size: 1.5"L x 1.6"W

183345: • DA15 female to HDDB15 male
- Size: 2.2"L x 1.6"W x 0.6"H

183353: • DA15 male to HDDB15 male
- Size: 6'L • Weight: 0.7 lbs.

Part No.	Description	1	10
126439	Mac to IBM adapter	$8.95	$7.95
119538	PPC 6100/7100 to IBM adapter	2.95	2.75
183345	Mac to IBM (SVGA)	5.95	3.95
183353	Adapter cable	8.95	7.95

Macintosh® Cable for Hayes Compatible Modem

- Connect Mac & Performa Series to Hayes compatible modem
- Length: 6'
- DB25M to mini DIN8M



SALE

Part No.	Description	1	10	50
169236	Modem cable	$2.95	$2.49	$2.25

macally 105-Key Keyboard



- Enhanced 105-key layout • ADB compatible
- Special soft key; positive response
- Size: 18.8"L x 7.8"W x 2.1"H
- Weight: 3.6 lbs.
- One-year warranty

Includes: Cable

Part No.	Description	1	10
151669	Macintosh® keyboard	$39.95	$34.95

QTRONIX 22-Key Macintosh® Keypad

- Fully compatible with Macintosh® PowerBook computers and other ADB computers
- Numeric and function keys
- Tactile click sound and touch feeling
- Auto-repeat function
- Two-key roll over
- 10 million cycles per switch
- Size: 6.2"L x 4.2"W x 1.3"H
- Weight: 0.8 lbs.



SALE

Part No.	Description	1	10
176823	Scorpius 22ADB	$25.09	$22.58

Same business day shipping until 6:00 p.m. EST. See page 182 for Zone Chart



macally Single Button Mouse



- 275 CPI resolution
- Soft, quick, responsive mechanical click button
- ADB connector
- 29" cord
- Size: 4.8"L x 2.4"W x 1.2"H
- One-year warranty

Part No.	Description	1	10	25
150480	Single button	$19.95	$17.95	$15.95

Panasonic® & Sony® Floppy Disk Drives

- 1.44MB capacity

154608: Panasonic
- Compatible with late model Quadras, all Power PCs and G3s
- Size: 5.7"L x 4.0"W x 1.0"H

154579: Sony
- Compatible with Mac-II series, SE30 and early Quadras (700, 900, 950)
- Size: 5.8"L x 3.8"W x 1.0"H



SALE

154608

Part No.	Description	Wt. (lbs.)	1	10	25
154608	Manual insert	1.2	$39.95	$35.95	$31.95
154579	Auto insert	1.7	49.95	48.25	43.40

www.jameco.com

MW MEAN WELL 60 Watt Switching Power Supply for Apple® IIGS

- Fully regulated +5VDC @ 6A, +12VDC @ 2A, -5VDC @ 0.5A, -12VDC @ 0.5A
- Input voltage: 115VAC
- 4 mounting holes
- Data included
- 6" output cable with 7-pin Molex connector
- Size: 11.3"L x 3.4"W x 2.2"H
- Weight: 2.3 lbs. • One-year warranty



SALE

Includes: Three pronged removable power cord

Part No.	Description	1	10	25
85518	60W power supply	$35.95	$32.25	$28.99

Replacement Batteries

126754:
- Lithium half AA
- Voltage: 3.6V (Tadiran)
- Amps: .85Ah
- Diameter: .579"



126754



150965

150965: • Alkaline pack w/ connector (Ray-O-Vac)
- Voltage: 4.5V • Amps: 600mAh

Part No.	Description	1	10	25	100
126754	Lithium half AA	$7.95	$6.95	$6.25	$5.59
150965	Alkaline pack	8.95	7.95	6.95	5.49

Apple Macintosh® Printer/Adapters/Extension Cables



181420 181391 181382 181374 180566 180591

SALE

Extension Cables

Part No.	Description	Length (ft.)	Weight (lbs.)	1	10	50
181420	4-pin mini DIN male to female	6	0.2	$1.49	$1.27	$.76
180494	4-pin mini DIN male to female	10	0.3	1.39	1.25	1.12
181391	8-pin mini DIN male to female	6	0.3	1.95	1.49	.95
180486	8-pin mini DIN male to female	10	0.4	2.25	1.95	1.49
180460	8-pin mini DIN male to female	25	0.9	2.95	2.49	1.75

Printer Cable

Part No.	Description	Length (ft.)	Weight (lbs.)	1	10	50
181382	8-pin mini DIN male to DB9 female	6	0.3	$2.95	$2.49	$1.95

Adapter Cables

Part No.	Description	Length (ft.)	Weight (lbs.)	1	10	50
180558	8-pin mini DIN male to DB25 male	3	0.2	$1.95	$1.49	$.99
181374	8-pin mini DIN male to DB25 male	6	0.3	2.95	2.49	1.75
180566	8-pin DIN male to DB25 male	1.5	0.2	1.95	1.49	.99
180591	8-pin DIN rt. angle male to DB25 male	2	0.2	1.95	1.49	.99

Apple Macintosh® Cables

SALE



73162 177519 10604 130024 10591

SCSI Cables

Part No.	Description	1	10	50
73162	6' Centronics 50M-50M	$4.95	$4.49	$3.95
72848	1.5' 50-pin SCSI socket ribbon cable	3.49	2.95	2.49
129971	SCSI-I terminator	1.95	1.49	1.25

Printer Cables

Part No.	Description	1	10	50
177519	3' mini DIN8M	$1.95	$1.75	$1.25
10604	6' mini DIN8M	3.95	3.49	2.95
130024	10' mini DIN8M	4.95	4.49	3.95
10591	6' DB25M to mini DIN8M	2.95	2.25	1.95

Network Cable Kit

Part No.	Description	1	10	50
73269	8-pin mini DIN to RJ11 PhoneNet kit	$2.95	$2.49	$1.95

Call for customer service support 1-800-831-4242



IEEE-488 Cables

SALE



73154

A variety of cable lengths are offered to ensure that the IEEE system requirements are met (20 meters maximum length with a maximum of 15 devices). These cables are standard IEEE-488 cables with stackable 24-pin GPIB connectors on both ends.

- Color: gray

Part No.	Description	Wt. (lbs.)	1	10	25
73154	1 meter	0.8	$28.95	$25.95	$23.49
115781	2 meter	1.2	32.95	31.95	28.95
115801	4 meter	2.0	34.95	31.49	27.95

IEEE-1284 Parallel & Serial Cables for High Speed

SALE



130067

The IEEE-1284 is the newest standard in high speed printing. Compatible with bi-directional communication data flow resulting in speeds up to 10 times faster than conventional applications.

- Double shielded with 28 AWG stranded twisted pair inner conductors • Molded shells, PVC plastic
- Color: beige (P/N 130067/168233); black (P/N 161630); gray (P/N 172304) • Weight: 0.6 lbs.

Part No.	Description	1	10
130067	6' DB25 M-Cent. parallel 36M	$9.95	$7.95
172304	6' DB25 M to micro Cent. 36M	2.79	2.49
168233	6' DB25 M-F parallel cable	4.95	3.59
161630	10' DB25 M-M serial cable	5.95	4.28

IEEE-1394 Firewire Cables



175821 175839 175847

Connect your computer to the latest high speed and Firewire peripherals.

- IEEE-1394 compliant • UL approved
- Molded connectors • Length: 6'

Part No.	Description	1	10	25
175821	4-pin M – M	$12.95	$11.49	$9.95
175839	6-pin M – 4-pin M	9.95	8.95	7.95
175847	6-pin M – M	12.95	11.49	9.95

PS/2 Keyboard Cable

- Coiled
- Color: beige
- Length: 5 ft.

SALE



Part No.	Description	1	10
128637	Modular to P/S2	$1.65	$1.47

AT-to-PS/2 and PS/2-to-AT Keyboard Adapter Cables

28003:

- Connects AT-type keyboards to PS/2
- 5-pin female DIN to 6-pin male mini DIN



28003

85500:

- Connects PS/2 keyboard to AT
- 6-pin female mini DIN to 5-pin male DIN connectors

Part No.	Length	Color	Wt. (lbs.)	1	10	100
28003	7.3"	Beige	0.6	$3.95	$3.49	$2.75
85500	11.3"	Beige	0.8	4.95	4.25	3.49

PC/XT/AT and PS/2 Keyboard Extension Cables

- Color: beige

22234/114981/112045/169826:

- IBM PC/XT and higher compatibles
- 5-pin DIN male-to-female

28548/111053:

- PS/2 computers
- 6-pin mini DIN female-to-male

SALE



114981

Part No.	Description	1	10	100
22234	PC/XT/AT 5' coiled	$2.95	$2.49	$1.95
114981	PC/XT/AT 6' non-coiled	3.49	2.95	2.49
169826	PC/XT/AT 10' coiled	3.49	2.95	2.49
112045	PC/XT/AT 10' non-coiled	4.95	4.49	3.75
28548	PS/2 6' non-coiled	3.95	3.49	2.95
111053	PS/2 10' non-coiled	4.95	4.49	3.95

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Socket Connector to Socket Connector Ribbon Cables

- Socket to socket connection; 40 & 50 pin
- 300V rating
- 18" length
- 28 AWG gray flat cable
- Tin-plated contacts



32715

Part No.	Product No.	Contacts	1	10	100
32686	S40-18-S	40	$2.95	$2.49	$1.95
32715	S50-18-S	50	2.95	2.49	1.95

Internal Computer Cables



185068 185076 185050

185068: • Conductors 34; length: 9"
185076: • Conductors 34; length: 14"
185050: • Conductors 20 & 34; length: 16.7"

Part No.	Description	1	10	100
185068	Socket ribbon cable	$1.49	$1.34	$1.19
185076	Socket ribbon cable	1.95	1.52	1.19
185050	XT cable set	3.49	2.95	2.36

SCSI-II Terminator

- Terminator for high-density 50-pin connector
- Single-ended passive
- 150Ω resistance
- Size: 2.0"L x 1.6"W x 0.6"H



Part No.	Description	1	10
73461	SCSI-II terminator	$9.95	$8.95

SCSI Adapters



133920



167370

SALE



181032

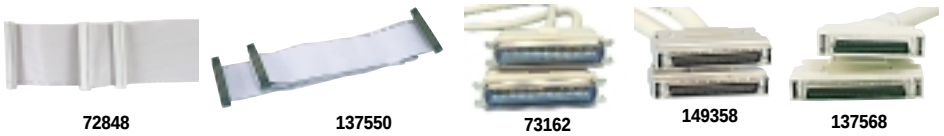


129971

- See page 135 for SCSI-type connector guide

Part No.	Description	1	10	50
133920	50-pin ribbon header SCSI-I to DB25 female	$6.95	$6.25	$5.59
125241	50-pin ribbon header to HPDB50 SCSI-II female	9.95	8.95	7.95
145293	DB25 male to HPDB50 female SCSI-II	15.95	14.35	12.95
167370	DB25 female to HPDB50 male SCSI-II	9.95	8.95	7.95
129971	Cent. 50 SCSI-I term.	1.95	1.49	1.25
163424	Cent. 50 SCSI-I male to female pass thru term.	.55	.49	.45
181032	HDB68 female SCSI-III with bracket	14.95	13.49	11.95

Internal and External SCSI Cables for Complete Connectivity



72848 137550 73162 149358 137568

- For PC/XT/AT and compatibles • All lines connected

† Also Macintosh® compatibles, see page 135 for SCSI type connector guide

SALE

Part No.	Description	1	10	50
72848	50-pin header socket ribbon cable SCSI-I (24")†	$3.49	$2.95	$2.49
137550	68-pin header internal ribbon cable SCSI-III (27")	12.95	11.49	9.95
189641	68-pin header internal ribbon cable with term SCSI-III (42")	19.95	17.95	15.95
180507	Male 50-pin Centronics to male DB25 (SCSI-I) 5.5'	6.95	6.25	5.59
164769	Male 50-pin Centronics to male 50-pin Centronics SCSI-I to SCSI-I (3')†	3.95	3.49	2.49
73162	Male 50-pin Centronics to male 50-pin Centronics SCSI-I to SCSI-I (6')†	4.95	4.49	3.95
118084	Male 50-pin Centronics to male HPDB50 cable SCSI-I to SCSI-II (6')	14.95	13.49	11.95
118914	Male HPDB50 to male HPDB50 SCSI-II to SCSI-II (3')	14.95	13.49	11.95
118076	Male HPDB50 to male HPDB50 SCSI-II to SCSI-II (6')	17.95	15.95	13.95
149358	Male Cent. mini 68-pin to male Cent. mini 68-pin SCSI-III to SCSI-III (5')	4.49	3.95	3.65
137576	Male HPDB68-pin to male 50-pin Centronics SCSI-III to SCSI-I (3')	17.95	15.95	13.95
137568	Male HPDB68-pin to male HPDB50-pin SCSI-III to SCSI-II (3')	12.95	11.49	9.95
137226	Male HPDB68-pin to male HPDB68-pin SCSI-III to SCSI-III (3')	18.95	16.95	15.45

The Products You Need...
The Service You Deserve.

JAMECO® ELECTRONICS

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

9-Pin Test Cables

154798: DB9 M to DB25 M (2')
- Pin outs: 2-2, 3-3, 5-7, 7-5, 8-4

162915: DB9 M to DB9 F (6')
- Pin outs: 1-3, 2-2, 4-5



162915

Part No.	Description	1	10	100
154798	DB9 male to DB25 male	$1.69	$1.49	$1.35
162915	DB9 male to DB9 female	3.49	2.95	1.99

DB9 Extension Cables


132345

25700


132345:
- DB9 female to DB9 female cable with thumbscrews

25700/148515:
- DB9 male to DB9 female cable with thumbscrews

181665: • DB9 male to DB9 male cable

Part No.	Description	1	10	100	1000
132345	6' F-F	$4.95	$4.49	$3.95	$3.49
25700	6' M-F	4.95	4.49	3.95	3.49
148515	10' M-F	6.95	6.25	5.59	4.95
181665	10' M-M	6.95	6.25	5.59	4.95

DB9 to DB25 Serial Cables

- For DB9 serial ports which need to be converted to DB25 serial
- AT and compatibles
- Molded DB9 female to DB25 male connectors


31721

Part No.	Description	Wt. (lbs.)	1	10	100
109583	1' serial, beige	0.2	$3.95	$3.49	$2.75
189333	3' serial, beige	0.3	4.25	3.75	2.95
31721	6' serial, beige	0.3	4.95	4.49	3.75
191361	6' serial, gray	0.4	4.95	4.49	3.95
155521	10' serial, beige	0.5	4.49	3.49	2.49

DB25 Extension Cables

- Use to lengthen your standard serial cable or for switch box applications
- All lines connected straight through
- Thumbscrews to secure connectors
- Color: gray; except P/Ns 174001/180451/175290: black*



67256

Part No.	Description	Wt. (lbs.)	1	10	100	1000
174001*	3' M-M	0.6	$3.49	$2.95	$2.49	$1.95
65787	6' M-M	0.5	4.95	4.49	3.75	3.25
39538	10' M-M	0.7	5.95	5.35	4.49	3.95
180451*	10' M-M	1.1	5.25	4.28	3.36	2.79
179979	15' M-M	1.2	7.95	6.25	5.05	3.95
67070	25' M-M	1.4	9.95	8.95	7.95	6.95
180435	50' M-M	3.6	14.95	13.49	11.95	9.95
175329	1' M-F	0.3	2.49	2.25	1.75	1.49
164291	3' M-F	0.4	3.25	2.65	1.92	1.19
175290*	3' M-F	0.4	2.95	2.49	1.95	—
163133	5' M-F	0.6	3.49	2.95	2.12	1.56
67256	6' M-F	0.6	4.95	4.49	3.75	3.25
39511	10' M-F	0.7	5.95	4.95	3.95	2.95
177279	15' M-F	1.0	7.95	6.25	5.05	3.95
101995	25' M-F	1.4	9.95	8.95	7.95	6.95
181201	50' M-F	3.2	14.95	13.49	11.95	9.95
180478	6' F-F	0.7	4.95	4.05	3.19	2.60
181331	10' F-F	0.9	5.95	4.82	3.82	3.16

See page 148 for our selection of Macintosh cables!

DA15 Extension Cables

DA15 connectors
- Molded connectors
- Straight through
- Thumbscrews
- Color: gray


181286

Part No.	Description	Length	1	10	100
181286	DA15 M-M	6'	$4.95	$4.49	$3.95
181358	DA15 M-F	6'	4.95	4.49	3.95

DB25 Serial Modem Cables

- Molded and fully shielded DB25 M-F
- 9 pins wired straight through: pins 1-8 and 20 (metal shell)

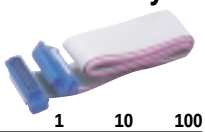


26008

Part No.	Description	Wt. (lbs.)	1	10	100
53858	6' M-F	0.4	$3.95	$3.49	$2.75
26008	10' M-M	0.5	3.95	3.49	2.95

DB25 Ribbon Cable Assembly

- Metal connector
- 300V rating • 105°C rating
- 28 AWG flat cable
- Tin-plated contacts



Part No.	Description	1	10	100
12407	4' male to female	$4.95	$3.95	$2.95

DB25 to Centronics Parallel Printer Cables

- Molded and fully shielded DB25 male and 36-pin Centronics male connectors
- IBM PC/XT and higher compatibles

[1] **180718:** For API printer DB25M to 50-pin Centronics

[2] **28741/164777:** DB25M to Centronics 36M right angle

[3] **180603:** For Amiga 100C printer



28716


28741/164777

Part No.	Description	Wt. (lbs.)	1	10	100
180718	6' straight [1]	0.6	$3.95	$3.49	$2.95
28716	6' straight	0.4	3.95	3.49	2.95
28741	6' right angle [2]	0.5	3.95	3.49	2.95
58536	8' straight	0.9	4.25	3.75	3.25
123781	10' straight	0.6	4.49	3.82	3.25
180603	10' straight [3]	0.9	4.95	3.82	3.16
164777	10' right angle [2]	0.7	4.49	3.35	2.60
28708	15' straight	0.8	5.95	4.95	—
101899	25' straight	1.1	6.95	6.25	4.95
184786	50' straight	2.1	9.99	7.59	5.59

36-Pin Centronics Printer Extension Cables

25 or 36 Conductors
- Molded and fully shielded Centronics 36-pin male and female connectors
- Use to lengthen standard printer cables or for switch box applications



40782

* **135028:** metal hood, black

** **180574:** metal housing • Weight: 1.0 lb.

Part No.	Description	# of Conductors	1	10	100
180531	6' M-M	25	$1.09	$.99	$.89
40791	10' M-M	25	1.29	1.19	1.06
180574**	10' M-M metal	25	2.75	2.25	1.75
183396	15' M-M	25	3.95	3.49	2.75
180515	6' M-F	25	2.49	2.25	1.75
135028*	8' M-M metal	36	2.49	2.25	1.75
180443	6' M-F	36	2.95	2.12	1.56
40782	10' M-F	36	3.95	3.49	2.95

37-Pin Straight Through Cable Adapters


180611


181294

- Molded connectors
- Color: gray • Length: 6' • Weight: 0.9 lbs.

Part No.	Description	1	10	100
180611	DC37 M-M	$5.95	$5.49	$4.95
181294	DC37 M-F	5.95	5.49	4.95

VGA Monitor Extension Cables

- Extends VGA monitor cable; HDDB15 male-to-female
- IBM PC/XT and higher compatibles

134041:
- HDDB15 female with hex nuts and HDDB15 male with thumbscrews

66165/148531: • Thumbscrews on each end


134041


66165

Part No.	Description	Wt. (lbs.)	1	10	100
134041	6' screws/hex nuts	0.4	$4.49	$3.95	$3.49
66165	6' thumbscrews	0.3	4.95	4.49	3.75
148531	10' thumbscrews	0.5	6.95	6.25	4.95

Standard Monitor Cable

- For monochrome, RGB, EGA and multisync monitors
- Connects video card to monitor
- IBM PC/XT and higher compatibles
- DB9 male to male
- Length: 6'



Part No.	Description	Wt. (lbs.)	1	10	100
66157	6' standard	0.3	$3.95	$3.49	$2.75

VGA Monitor Cables

- Connects video card to VGA monitor
- IBM PC/XT and higher compatibles
- HDDB15 male to male

66173


Part No.	Description	Wt. (lbs.)	1	10	100
66173	6' monitor cable	0.3	$4.95	$4.49	$3.75
148523	10' monitor cable	0.5	6.95	6.25	4.95

RCA Cables


139037


177527


190617

- Video/audio applications

† **139037:** 1/8" male stereo plug to two RCA male (red & white) * **184882:** Low loss

• See page 57 for jacks



Part No.	Description	1	10	100
183302	4' 2 males (red/black)	$2.95	$2.49	$1.95
139037†	5' male to male "Y"	2.95	2.49	1.95
177527	6' 3 males to 3 males	4.95	3.82	3.16
184882*	6' 3 males to 3 males	3.95	3.49	2.95
183311	4' male to male	.99	.89	.79
106374	6' male to male	.99	.79	.55
190617	10' male to male (black)	1.19	.99	.75
29348	10' male to male (yellow)	1.39	1.19	.99

RGB Video Cables

- 75Ω coaxial cable; 6' or 10'
- Pin 1 red, pin 2 green, pin 3 blue, pin 14 white/black vertical, pin 13 gray horizontal
- 5 BNCs to HDDB15-pin male • Weight: 0.9 lbs.



73648

Part No.	Description	1	10	25
73648	6' cable (black)	$20.95	$18.95	$16.95
118068	10' cable (black)	21.95	19.50	15.95

D-Sub 9-Pin to 25-Pin Serial Adapters

SALE


10305


153576

10305: For use in AT or other computer systems that have 9-pin D-sub serial ports.
153576/10321/163740: For PC/XT systems with DB25 serial ports.
* **189632:** thumbscrews
† **139985:** gold-plated contacts, extra long thumbscrews

Part No.	Description	1	10	100
10305	DB9 F to DB25 M	$2.95	$2.49	$1.95
163740	DB9 M to DB25 F, thumbscrews on DB9 side only	1.49	1.25	.99
153576	DB9 M to DB25 F, thumbscrews on DB25 side only	2.95	2.12	1.39
191610	DB9 F to DB25 M, thumbscrews on DB25 side only	2.95	2.49	1.75
10321	DB9 M to DB25 F	4.29	3.59	2.95
189632*	DB9 M to DB25 M	2.95	2.49	1.95
139985†	DB9 F to DB25 F	3.49	3.15	2.95

6-Pin Male Mini DIN to 9-Pin Male D-Sub Adapter


152901


180523


100335

Pin-to-pin connections:

6-pin male mini DIN	1	2	3	4	5	6
9-pin male D-sub						
152901	9	—	3, 5	4, 6	8	—
100335	1	—	3, 9	2, 5, 7	6	—
180523	2	3	5	4, 7	5	—

• Color: beige • Size: 1.6"L x 1.3"W

Part No.	Description	1	10	100
152901	W/ threaded spacer	$2.95	$1.95	$1.25
100335	W/ thumbscrew	3.95	3.49	2.95
180523	Cable adapter (1 ft.)	4.95	3.82	3.16

15-Pin to 9-Pin VGA Adapter



- Adapts 15-pin VGA to 9-pin output
- Male HDDB15 to female DB9 adapter

Part No.	Description	1	10	100
75264	VGA adapter	$3.95	$3.49	$2.95

AT and PS/2 Keyboard Adapters


159089


159097

SALE


157930

159089/189771: AT keyboard adapter
- Connects PS/2 keyboard to AT
- 6-pin female mini DIN to 5-pin male DIN


189771

159097/157930: PS/2 keyboard adapter
- Connects AT type keyboards to the PS/2
- 5-pin female DIN to 6-pin male mini DIN (PS/2)

Part No.	Length	Housing	1	10	100
159089	1.6"	Metal	$2.95	$2.49	$1.95
159097	1.4"	Metal	2.95	2.49	1.95
157930	1.7"	Plastic/metal	2.75	2.49	1.95
189771	1.7"	Plastic	2.95	2.49	1.95

Full Handshaking Null Modem Adapters

Self-contained null-modem (cross-over) adapters. Change any standard straight cable into a null cable quickly and easily.


26260

Internal pin configuration:
26260/17224: 1-1, 2-3, 3-2, 4-5, 5-4, 6-20, 20-6, 7-7, 8-20
26243: 1-1, 2-3, 3-2, 4-8, 8-4, 5-8, 8-5, 6-20, 20-6, 7-7

Part No.	Description	1	10	100
26260	DB25 M to DB25 M	$3.49	$2.95	$2.49
26243	DB25 M to DB25 F	3.95	3.49	2.95
17224	DB25 F to DB25 F	3.49	2.95	2.49

Monitor Power Adapter Cables



- Allows connection of monitors directly to standard IBM type power supplies
- Monitor turns on/off automatically via system power switch • IBM PC/XT and higher compatibles
- See page 95 for more power adapter cables

Part No.	Description	1	10	100
177447	1' monitor cable	$2.95	$2.49	$1.95
26382	6' monitor cable	3.49	2.95	2.49
177455	10' monitor cable	2.95	2.75	2.25

Slim-Line D-Sub Gender Changers to Save Space


18497


56071


18446

These revolutionary slim-line gender changers are only 0.69" wide, eliminating the space problems caused by standard gender changers. When plugged into your existing cable, they add only 0.44" to the cable. All-metal cases.


180662

- Captive locking screw (male)
- Captive locking nut (female)
- Grounding tangs (male)

Part No.	Description	1	10	100
18497	D-sub 9-pin male	$3.95	$3.49	$2.95
18489	D-sub 9-pin female	3.95	3.49	2.95
56071	D-sub 15-pin male	3.95	3.49	2.95
56063	D-sub 15-pin female	3.49	2.95	1.95
119319	D-sub 15-pin female HD	3.95	3.49	2.95
119301	D-sub 15-pin male HD	3.95	3.49	2.95
18446	D-sub 25-pin male	3.69	3.49	2.79
18420	D-sub 25-pin female	3.95	3.49	2.95
170085	D-sub 25-pin M-F	2.95	2.51	1.56
18471	D-sub 37-pin male	2.35	2.15	1.89
180662	Centronic 36-pin male	3.95	2.95	2.36

Standard D-Sub Gender Changers


16643


181139


22058

- Standard 9- and 25-pin D-sub male and female gender changers for interfacing two cables or connectors of the same gender


183361

Part No.	Description	1	10	100
16635	D-sub 9-pin male	$1.95	$1.75	$1.49
16643	D-sub 9-pin female	1.95	1.75	1.49
181139	D-sub 15-pin female HD	1.95	1.75	1.49
22058	D-sub 25-pin male	1.95	1.75	1.49
22074	D-sub 25-pin female	1.75	1.49	1.19
183361	Centronics 36-pin female	2.95	2.15	1.39

Switch Box Adapter Cables


174772

177261: • 2' gray 6-pin mini DIN M-M non-coiled cable for P/N 79177 switch box, pg 154
114913: • 5' gray 5-pin DIN M-M coiled cable for P/Ns 114163/114155 switch boxes, pg 154
174772: • 6' black 6-pin mini DIN M-M
174908: • 6' gray 6-pin mini DIN M-M
112627: • 10' gray 6-pin mini DIN M-M non-coiled cable for P/N 79177 switch box, pg 154

Part No.	Description	Length	1	10	50
177261	6-pin mini DIN	2' (gray)	$2.95	$2.12	$1.56
114913	5-pin DIN	5' (gray)	4.95	4.49	3.95
174772	6-pin mini DIN	6' (blk)	4.75	3.82	3.16
174908	6-pin mini DIN	6' (gray)	4.95	3.82	3.16
112627	6-pin mini DIN	10' (gray)	6.49	5.95	5.35

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Serial Null Modem Cables


180697


180582


180742


180726

SALE


181366


181260

- Molded type connectors • Color: gray

181403/180697 Pin outs: 1–7 & 8; 2-3; 3-2; 4-6; 5-5; 6-4; 7 & 8-1
181438 Pin outs: 2-2; 3-3; 5 & 6-4; 7-5; 8-7; 20-6 & 8 (Serial Printer Null Modem)
180582 Pin outs: 2-2; 3-3; 4-5 & 6; 5-7; 6 & 8-20; 7-8; (Serial Printer Null Modem)
180742 Pin outs: 1-4 & 5; 2-2; 3-3; 4-6; 5-7; 6-20; 7-8; 8-8
180726/181366/181243/181251/181260 Pin outs: 2-3; 3-2; 4 & 5-8; 6-20; 7-7; 8-4 & 5; 20-6

Part No.	Description	Length (ft.)	Weight (lbs.)	1	10	50
181403	DB9 female to DB9 female	6	0.3	$4.95	$4.49	$3.95
180697	DB9 female to DB9 female	10	0.4	5.95	5.49	4.95
181438	DB25 male to DB9 female	6	0.4	4.95	4.49	3.95
180582	DB25 male to DB9 female	10	0.4	5.95	5.49	4.95
180742	DB25 female to DB9 female	10	0.5	5.95	4.66	3.96
180726	DB25 male to DB25 male	6	0.5	4.95	3.82	3.16
181366	DB25 male to DB25 female	6	0.5	3.95	3.49	2.95
181243	DB25 male to DB25 female	10	0.6	4.95	4.49	3.95
181251	DB25 male to DB25 female	25	1.2	5.95	5.32	4.48
181260	DB25 female to DB25 female	10	0.6	4.95	4.49	3.95

RJ-Type Couplers and Adapters


Fig. 1
W: 1.5"
H: 0.9"
D: 0.7"


Fig. 2
W: 1.1"
H: 0.8"


Fig. 3
W: 1.7"
H: 1.0"
D: 0.9"

Style 1 Reverse wiring for telephone systems

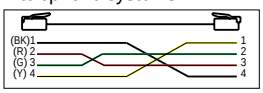
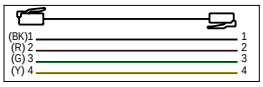



Fig. 4
W: 1.0"
H: 1.0"
D: 2.0"

Cat 5 Coupler!

Style 2 Straight wiring for networking/printer sharing



SALE

Part No.	Description	Fig.	1	10	100
75248	6P4C female "T" adapter, Style 1. Provides 2 jacks from 1 cable. Female jack (6P4C), 2 female modular receptacles (6P4C) RJ11	2	$.59	$.53	$.47
72207	6P4C male "T" adapter, Style 2. Provides 2 jacks from 1 line. Male modular plug (6P4C), 2 female modular receptacles (6P4C) RJ11	2	.79	.69	.55
71757	6P6C modular coupler, Style 1, RJ11	1	.85	.65	.49
135087	6P6C modular coupler, Style 2, RJ11	1	.85	.65	.49
181091	6P6C male "T" adapter, Style 2. Provides 2 jacks from 1 line. Male modular plug(6P6C), 2 female modular receptacles (6P6C) RJ11	2	.59	.53	.47
118501	8P8C modular coupler, Style 1, RJ45	1	.99	.89	.79
135079	8P8C modular coupler, Style 2, RJ45	1	1.15	.99	.89
172814	8P8C modular coupler, Style 1 (for Cat. 5) RJ45	4	6.95	6.25	5.59
153023	8P8C modular coupler, Style 2 (for Cat. 5) RJ45	3	6.95	6.25	5.59

Surface Mount RJ-Type Wall Jack Boxes and Plate

- Color: beige
W/E = Western Electric type no.


Fig. 1 (72311)
W: 2.8"
H: 4.5"


Fig. 2 (71651)
W: 2.0"
H: 2.2"
D: 0.9"

Part No.	Description	W/E	Fig.	1	10	100
72311	6P6C & 8P8C double wall jack plate w/ jacks	—	1	$1.49	$1.35	$1.19
103464	6P4C adhesive jack RJ11	625A-4	2	1.39	1.19	.99
71984	6P6C adhesive jack RJ11	625BS-6	2	1.39	1.19	.99
71651	8P8C adhesive jack RJ45	635	2	1.59	1.35	1.19

Surface Mount RJ45 Jack Boxes

Category 5, Unshielded

- RJ45
- 8P8C
- 100MHz • Color: beige
- Size: 2.6"L x 3.2"W x 1.2"H


176073


176081

Part No.	Description	1	10	100
176073	Single jack	$6.95	$6.25	$5.59
176081	Dual jack	9.95	8.95	7.95

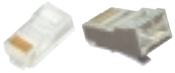
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Modular Plugs

SALE


103491 79290 79273 79281 119343

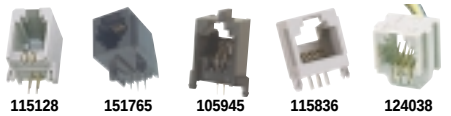
P = No. of positions
C = No. of contacts
W/E = Western Electric type number


180646 116610

✻ Prepackaged: please order in increments of 10, 100 or 1000

Part No.	Description	W/E	1	10	100	1000
103491	4P4C (handset)	616	✻	$.11	$.08	$.06
79290	6P4C (RJ11)	623	✻	.12	.11	.08
79273	6P6C (RJ11)	623	✻	.16	.15	.11
79281	8P8C (RJ45)	641	✻	.21	.19	.15
119343	8P8C (RJ45) unshielded (for solid wire)	—	.43	.39	.29	.19
116610	8P8C (RJ45) shielded	—	.99	.85	.69	.55
116601	8P8C (RJ45) shielded (for solid wire)	—	.99	.85	.69	.55
180646	10P10C (for stranded wire)	—	.89	.75	.69	.55

Modular Jacks


115128 151765 105945 115836 124038

- PC mount
- Voltage rating: 150 volts AC max.
- Contact curr. rating: 1.5 amp max. @ 25˚C
- Durability: 750 mating cycles


115844 167290 182924

SALE

Part No.	Description	W/E	1	10	100
115128	4P4C (handset)	—	$.69	$.49	$.35
151765	6P4C (RJ11) side flange .82"L x .61"W x .59"H	AMP	.52	.45	.35
105945	6P4C (RJ11) top flange .48"L x .48"W x .71"H	623	.59	.49	.39
115836	6P6C (RJ11) side flange	—	.65	.59	.45
124038	6P6C (RJ11) 6" leads	—	.95	.75	.55
115844	8P8C (RJ45) .50"L x .59"W x .56"H	641	.65	.59	.49
167290	8P8C (RJ45) top flange .65"L x .63"W x .72"H	—	.19	.15	.13
182924	8P8C (RJ45) shielded .84"L x .63"W x .54"H	—	.95	.75	.55

Modular Data Network Cables

Category 5 (350MHz)

SALE



- 4 pair • UTP • 8P8C
- Style 2 wiring (see above)
- High flexibility • 24AWG (7 x 32) stranded
- With molded boot • Color: gray

Part No.	Description	Wt. (lbs.)	1	10	100
168292	3ft. RJ45 cable	0.1	$2.95	$2.49	$1.75
168305	7ft. RJ45 cable	0.2	4.95	4.49	3.95
168313	15ft. RJ45 cable	0.4	5.95	5.35	4.79
168321	25ft. RJ45 cable	0.6	7.95	6.95	6.25

Modular Data Network Cat 5 (Crossover) Cable



- Connect 2 PCs w/o a hub
- 24AWG (7 x 43) stranded • UTP
- Style 2 wiring (see above) • 4-pair
- Strain relief RJ45 connectors • 8P8C

Part No.	Description	1	10	100
169261	10' cable RJ45, gray	$6.95	$6.25	$5.59

BNC/F-Type/Fiber Optic Jacks


195645 195653 195661

- Removable jacks used in wall plates
- Clip on for easy installation on wall plates
- Color: ivory

NEW

Part No.	Description	1	10	100
195645	F-Type female to female	$1.95	$1.75	$1.29
195653	BNC female to female	4.95	4.45	3.95
195661	ST Fiberoptic	7.95	6.95	5.95

RJ45 Modular Jacks

Punchdown Type


195602 195611

- Removable jacks used in wall plates (clip on)
- CAT5E classification
- Punchdown type wiring connections w/ color coding
- Size: 0.57"W x 0.63"H x 1.23"D • 8P8C

Part No.	Color	1	10	100
195590	Red	$4.95	$4.45	$3.95
195602	Yellow	4.95	4.45	3.95
195611	Green	4.95	4.45	3.95
195629	Black	4.95	4.45	3.95
195637	Ivory	4.95	4.45	3.95

NEW

RJ45 Wall Plates


195549 195557 195565 195573 195581

- Color: ivory • Size: 2.8"W x 4.5"H

Part No.	No. of ports	1	10	100
195549	1	$1.49	$1.25	$.99
195557	2	1.49	1.25	.99
195565	3	1.49	1.25	.99
195573	4	1.49	1.25	.99
195581	6	1.49	1.25	.99

NEW

RS232-to-RJ11/RJ45 Modular Jack Adapters


66181 66237

Change your RS232 port to a RJ11 or RJ45 modular jack. This will allow you to use modular phone cable rather than RS232 cable, thus simplifying networking applications. Comes complete with all necessary wiring and hardware.

Part No.	Prod. No.	Description	1	10	100
66181	G9P6	DB9 M to RJ11(6P6C)	$2.19	$1.95	$1.75
66190	G9P8	DB9 M to RJ45(8P8C)	1.95	1.75	1.49
114737	G9S4	DB9 F to RJ11(6P4C)	1.95	1.75	1.49
66202	G9S6	DB9 F to RJ11(6P6C)	2.19	1.95	1.75
66211	G9S8	DB9 F to RJ45(8P8C)	2.49	2.25	1.95
66229	G25P6	DB25 M to RJ11(6P6C)	2.19	1.95	1.75
66237	G25P8	DB25 M to RJ45(8P8C)	2.49	2.25	1.95
114729	G25S4	DB25 F to RJ11(6P4C)	1.25	1.15	.99
66245	G25S6	DB25 F to RJ11(6P6C)	2.25	1.95	1.75
66253	G25S8	DB25 F to RJ45(8P8C)	2.49	2.25	1.95

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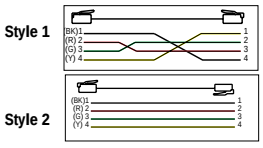
Modular Telephone/Printer Sharing Cables (Gray)

Low Cost Data/Phone Cables

- RJ11 – 6P2C/6P4C for telephone or network, 4 wire
- RJ11 – 6P6C for telephone or printer sharing
- RJ45 – 8P8C for telephone or modem-dial-up use

Style 1 – Reverse wiring for telephone systems
Style 2 – Straight wiring for networking/ printer sharing





Part No.	Conn. Style	Type	Length	Pricing 1	10	100
189940	1	RJ11-6P2C	7ft.	$.99	$.89	$.79
189931	1	RJ11-6P4C	1ft.	.69	.59	.49
115553	2	RJ11-6P4C	7ft.	1.09	.89	.75
115545	1	RJ11-6P4C	25ft.	1.75	1.49	1.19
184778	1	RJ11-6P4C	50ft.	2.95	2.49	1.95
115588	1	RJ11-6P6C	7ft.	1.09	.89	.75
115617	2	RJ11-6P6C	7ft.	1.49	1.25	.99
115676	2	RJ45-8P8C	7ft.	1.49	1.25	.99
115684	2	RJ45-8P8C	14ft.	2.95	2.49	1.95

Modular Data Network Cables

Category 5 (100MHz)


115721 w/o Boot


124804 w/ Boot


124741 124863 124687

- 4 pair • 24 AWG (7 x 43) stranded
- Style 2 wiring (see above) • UTP
- Color code for easy wire tracing • Prevent "snags"
- All cables have boots except gray • High-flexibility
- Achieve optimum system performance • 8P8C

† **No Boot**

See page 90 for Bulk Cable

Part No.	Description	Color	1	10	100
115713	3ft. cable RJ45	Gray†	$2.95	$2.49	$1.75
115721	7ft. cable RJ45	Gray†	4.29	3.75	3.29
175273	7ft. cable RJ45	Gray	3.49	2.95	2.36
115730	15ft. cable RJ45	Gray†	5.49	4.95	4.49
115748	25ft. cable RJ45	Gray†	7.49	6.75	5.49
181059	50ft. cable RJ45	Gray	9.95	8.95	7.95
124724	3ft. cable RJ45	Red	2.95	2.25	1.95
124732	7ft. cable RJ45	Red	3.95	3.49	2.95
124741	15ft. cable RJ45	Red	4.95	4.49	3.95
170165	25ft. cable RJ45	Red	6.95	6.25	4.95
124847	3ft. cable RJ45	Black	2.95	2.49	1.75
192701	6ft. cable RJ45	Black†	3.49	2.95	2.49
124855	7ft. cable RJ45	Black	3.95	3.49	2.75
124863	15ft. cable RJ45	Black	5.25	4.75	4.25
170173	25ft. cable RJ45	Black	6.95	6.25	4.95
124804	3ft. cable RJ45	Blue	3.29	2.79	2.19
124812	7ft. cable RJ45	Blue	4.49	3.95	3.19
124821	15ft. cable RJ45	Blue	4.95	4.25	3.95
170190	25ft. cable RJ45	Blue	7.49	6.95	6.25
124687	3ft. cable RJ45	Yellow	3.49	2.95	2.49
124695	7ft. cable RJ45	Yellow	3.95	3.49	2.75
124708	15ft. cable RJ45	Yellow	4.49	3.95	3.25
170299	25ft. cable RJ45	Yellow	6.95	6.25	4.95

EZ RJ45 Connector



Strip the wire and insert into the plug and pull out the wire on the other side. This ensures correct conductor order and uniformity in crimping. No wire bar and no wasted cable. • For solid or stranded wire

- Use standard modular crimping tool • 8P8C plug

Part No.	Product No.	1	10	100	250
158115	RJ45 (8P8C)	$1.75	$1.49	$1.25	$.99

Pocket-Sized Parallel Printer-to-PC Switch Box

Connects two computers to one printer. Compatible with both bidirectional and non-bidirectional printers.

SALE



- Switchable setting for form feed and time-out
- Two LEDs to indicate link status
- Connectors: 2 DB25 female input connectors and 1 DB25 female output connector
- Size: 3.3"L x 2.5"W x 0.9"H

Requires: 9VDC @ 500mA power supply (recommended P/N 100853, pg 68)

Part No.	Product No.	1	10	25
172662	2-to-1 printer switch	$5.29	$4.75	$4.25

Pocket-Sized Automatic Parallel Printer-to-PC Switcher

Connect two computers to a printer. Operates on a first-come, first-served basis.



SALE

- Connectors: 2 DB25 female inputs and 1 DB25 female output
- Two LEDs indicate link status
- Size: 4.0"L x 3.2"W x 1.0"H
- One-year warranty

Part No.	Description	1	10	25
94641	2-to-1 printer switch	$13.95	$12.95	$11.95

Fax/Modem/Telephone-to-PC

RJ11 6P6C Female


79142

- Connects fax, modem, or telephone to 2 or 4 PCs

79142: 2-PC switch box
- Size: 6.0"L x 4.8"W x 2.5"H
- Weight: 1.2 lbs.

180161: 4-PC switch box
- Size: 8.0"L x 6.0"W x 2.2"H
- Weight: 2.0 lbs.

180161

Part No.	Description	1	10
79142	2-PC RJ11 switch box	$11.95	$10.95
180161	4-PC RJ11 switch box	14.95	13.49

Network Devices-to-Server Switch Box

RJ45 8P8C Female



- Connects network devices to 4 servers
- 5 RJ45 8P8C females
- Size: 8.0"L x 6.1"W x 2.2"H • Weight: 2.0 lbs.

Part No.	Description	1	10
180099	4-server RJ45 switch box	$9.95	$8.95

KVM Two Computer System Switch Box

Allows one user with one keyboard, mouse and monitor to access two PS/2 systems.



- Switch between computers manually or via keyboard hot-keys
- Auto scan feature switches between computers
- Small design of switch increases work space
- Input connectors (from PC to switch box): 6-pin mini DIN female (PS/2) for keyboard and mouse, HDDB15 male for monitor
- Output connectors (from switch box to user): 6-pin mini DIN female for keyboard and mouse; HDDB15 female for monitors
- Size: 6.7"L x 3.8"W x 1.4"H • Weight: 0.9 lbs.

Part No.	Description	1	10
190916	2 computer switch box	$69.95	$62.95

Parallel Printer-to-PC Switch Boxes

DB25 Female


20095


155512


20124

- Connects 2 or 4 PCs to one printer

20095: 2-PC switch box
- Size: 6.0"L x 5.8"W x 2.3"H
- Weight: 1.3 lbs.

155512: 2-PC switch box
- Size: 7.2"L x 4.9"W x 2.5"H
- Weight: 2.3 lbs.

Includes: DB25 M-M cable

20124: 4-PC switch box
- Size: 6.0"L x 4.0"W x 2.4"H
- Weight: 1.5 lbs.

Part No.	Description	1	10
20095	2 PC switch box	$8.95	$7.95
155512	2 PC switch box	5.95	4.95
20124	4 PC switch box	14.95	13.49

Parallel Printer-to-PC Switch Box

Two DB25 and One 36-Pin Centronics Female

SALE



- Connects two PCs to one printer
- Size: 6.0"L x 5.3"W x 2.0"H
- Weight: 1.4 lbs.

Part No.	Description	1	10
73322	2-PC switch box	$11.95	$9.95

Bidirectional Parallel Printer-to-PC Centronics Switch Boxes

36-Pin Centronics Female

SALE


20132




20141

- Connects multiple PCs to multiple printers
- All pins switched
- Full shielding meets FCC requirements
- Gold plated connector pins
- Long-life operation
- Metal construction

20132: 2-way switch box
- 2 PCs to 1 printer or 1 PC to 2 printers
- Size: 6.0"L x 5.8"W x 2.3"H
- Weight: 1.4 lbs.

20141: 3-way switch box
- 3 PCs to 1 printer or 1 PC to 3 printers
- Size: 6.0"L x 5.8"W x 2.3"H • Weight: 2.7 lbs

Part No.	Description	1	10
20132	2-way switch box	$3.29	$2.95
20141	3-way switch box	14.95	13.49

AT&T Fax Switcher



NEW

- Features automatic ring reduction, answering system transfer and transfer timer, extension in use detection and calling tone detection, dial pulse / rotary transfer, unanswered call transfer, reverse modem detection, remote call alert, line interrupt protection, calling tone detection
- System capacity: line-in, answering machine, phone, modem/fax connection
- Size: 4.9"L x 5.1"W x 1.4"H • Weight: 1.8 lbs.

Includes: 12VAC @ 830mA power supply, 6' 11" telephone cable, and manual

Part No.	Product No.	Description	1	10
152004	ATT200A	Fax switch	$24.95	$22.49

Same business day shipping on orders placed by 6:00 p.m. EST

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

Jameco Stocks Over 6,000 Quality Products

2-Way & 4-Way Monitor/Keyboard/Mouse-to-PC Switch Boxes

HDDB15/5-Pin DIN/DB9M


132249


134017

- Allows 2 or 4 users to share one PC system
- Internal diodes maintain keyboard in powered state when switching between systems
- Each user may need 2 or 4 sets of the following cables: P/N 66173, DB15HD M-M for monitor; P/N 114913, 5-pin DIN M-M for keyboard; P/N 132345, DB9 F-F for serial mouse (cables, pgs 150 & 151)
- Size: 7.5"L x 5.3"W x 2.8"H

Part No.	Description	Wt. (lbs.)	1	10
132249	2-user switch box	1.6	$17.95	$15.95
134017	4-user switch box	2.3	21.95	19.95

Keyboard/Mouse-to-PC Switch Box

DB9/5-Pin DIN Female




- Connects 4 keyboards and/or serial mice to PC
- Size: 6.0"L x 4.7"W x 2.5"H
- Weight: 1.5 lbs.

Part No.	Description	1	10
183409	4-way switch box	$17.95	$15.95

Keyboard/Monitor-to-PC Switch Boxes

HDDB15/5-Pin DIN Female


114155


114163

- Size: 6.0"L x 4.0"W x 2.3"H
- Weight: 1.3 lbs.

114155: 2-way switch box

- For 2 PCs connected to 1 keyboard and 1 monitor – diodes maintain keyboard in powered state

114163: 2-way switch box

- For 1 PC connected to 2 keyboards and 2 monitors

Part No.	Description	1	10
114155	2 computers	$14.95	$13.49
114163	1 computer	9.95	8.95

Keyboard/Monitor-to-PC Switch Box

HDDB15/6-Pin Mini DIN Female



- Connects 2 monitors and 2 keyboards to a PC
- Size: 6.0"L x 4.5"W x 2.6"H
- Weight: 1.3 lbs.

Part No.	Description	1	10
79177	2-way switch box	$14.95	$13.49

Monitor-to-PC Switch Boxes

DB9 Female


79126


183417

- Connects 2 or 4 serial or TTL monitors to a PC

79126: 2-monitor switch box

- Size: 6.0"L x 4.8"W x 2.5"H
- Weight: 1.2 lbs.

183417: 4-monitor switch box

- Size: 6.1"L x 4.0"W x 2.2"H
- Weight: 1.3 lbs.

Part No.	Description	1	10
79126	2-monitor switch box	$9.95	$8.95
183417	4-monitor switch box	19.95	17.95

ATEN Automatic Parallel Printer Switchers


177421


177404

- Connects up to 4 PCs to 1 printer or 4 printers to 1 PC
- Non-powered
- Compact size
- Auto-form feed selectable
- Transparent to user

177421: bidirectional; 3.5" software included; 5 DB25 female connectors
177412: 5 DB25 female connectors
177404: 3 DB25 female connectors

Part No.	Description	1	10	25
177421	1 to 4 or 4 to 1	$14.95	$11.47	$9.56
177412	4 to 1	12.95	9.77	7.96
177404	2 to 1	9.95	7.61	6.36

ATEN Serial Printer-to-PC Automatic Switch Boxes

For DB25 RS232 Printers


185025


185033


185041

- Non-powered
- Cable distance: 15m (45 ft.)
- Auto and manual mode selectable
- 0 to 90 secs. time out selectable
- DB25-pin male and DB25-pin female connectors
- LED indicator for status

185025: 2-PC switch box

- Size: 3.5"L x 3.0"W x 1.0"H
- Weight: 0.4 lbs.

185033: 4-PC switch box

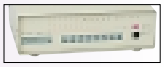
- Size: 6.0"L x 3.0"W x 0.7"H
- Weight: 0.5 lbs.

185041: 8-PC switch box

- Size: 10.0"L x 7.0"W x 3.0"H
- Weight: 6.0 lbs.

Part No.	Product No.	Description	1	10
185025	AS-251S	2-PC	$8.95	$7.15
185033	AS-451S	4-PC	10.95	9.19
185041	AS-811S	8-PC	12.95	10.79

8 Parallel Printer-to-PC Switcher




- Connects 8 PCs to 1 parallel printer
- 8-port first-come, first-serve auto switch
- Auto or manual switch selectable on input port
- 5 to 60 second time out selectable
- Auto form feed selectable
- LED indicators for port selection, printer ready, and manual mode
- Input and output connectors: DB25 female
- Size: 10.0"L x 7.1"W x 3.0"H • Weight: 6.1 lbs

Includes: Manual and 9VDC @ 300mA AC adapter

Part No.	Description	1	10
183388	8-port parallel switcher	$19.95	$17.95

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Call us at 1•800•831•4242

See pages 148-151 for Cables to accompany your switch box



Bidirectional Non-Buffered Serial-to-Parallel Converter



- Bidirectional conversion of parallel and serial signals
- Serial interface: hardware handshake RTS/CTS, software handshake XON/XOFF; DCE/DTE selectable; parity: odd, even, or no parity; data bits: 7, 8
- Connectors: one DB25 female and one Centronics 36-pin male
- Stop bits: 1 or 2 • Baud rate: 300 to 38,400bps
- Size: 4.0"L x 2.5"W x 1.0"H • Weight: 0.8 lbs.
- One-year warranty

Includes: AC adapter (9VAC @ 200mA) and manual

Part No.	Description	1	10	25
116935	Bi-converter	$49.95	$44.95	$39.95

ATEN IEEE-488 to Centronics Parallel Printer Converter



- Allows printing from an IEEE-488 device to a parallel printer
- IEEE-488 24-pin female input connector
- Centronics 36-pin male output connector
- DIP switch configurable to 31 IEEE-488 addresses
- Size: 4.0"L x 2.5"W x 1.0"H
- Weight: 0.9 lbs. • One-year warranty

Includes: 9VDC @ 300mA wall transformer

Part No.	Description	1	10
122964	IEEE to Centronics convtr.	$44.95	$39.95

4-to-1 Parallel Printer Sharer

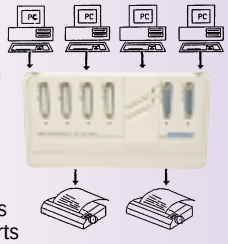


- Up to 4 computers sharing 1 printer
- Selectable automatic and manual modes
- Transparent to user
- Interfaces: 4 DB25 female input ports, 1 DB25 female output port
- Non-powered (passive)
- Requires AC adapter (recommend P/N 100853, pg 68) • One-year warranty
- Size: 8.8"L x 6.3"W x 2.3"H • Weight: 3.7 lbs.

Includes: Manual

Part No.	Description	1	10
76945	Parallel switch box	$9.95	$7.16

ATEN 4-In/2-Out Parallel Printer-to-PC Buffer



- Connects 4 computers to 2 printers
- 256k byte memory
- Dynamic buffer allocation
- Auto form feed/pause at file end (enable/disable)
- 2 stage daisy chain expandability
- Interface: 4 DB25 female input ports, 2 DB25 female output ports
- Configuration saved to EEPROM
- Size: 10.5"L x 5.8"W x 1.3"H
- Weight: 3.9 lbs. • One-year warranty

Includes: AC adapter and manual

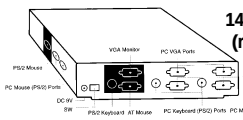
Part No.	Description	1	10
76937	4-in/2-out parallel buffer	$34.25	$30.85

ATEN Switch Boxes Allow Access to 2 or 4 PS/2 Systems

Use one monitor, mouse and keyboard to access two or four PS/2 computer systems



149382 (front)

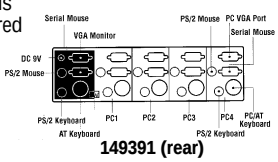


149382 (rear)

- Selects any computer by hot keys & 7 buttons
- Serial mouse and PS/2 mouse emulation and keyboard emulation for automatic PC boot up
- Three stage cascadable for accessing more computers
- Supports SVGA, VGA and Multisync monitors
- Keyboard LED status recorded and restored while switching among computers
- Auto scan for monitoring PC periodically
- One-year warranty
- Size (149382): 9.0"L x 6.0"W x 2.0"H
  (149391): 10.0"L x 7.0"W x 3.0"H



149391 (front)



149391 (rear)

Includes: Manual and power supply (9VDC @ 600mA)

Part No.	Description	Wt. (lbs.)	1	10
149382	2 computer SB	4.0	$149.95	$129.95
149391	4 computer SB	7.1	229.95	209.95

SVGA 4-Channel Monitor Splitter

Duplicate a video signal from one source to 4 monitors up to 210 feet.



- Suitable for SVGA, VGA and multisync monitors
- HDDB15 female connectors on box
- Slide switch for video signal gain control
- Daisy chainable
- One-year warranty
- Size: 8.8"L x 6.0"W x 1.9"H
- Weight: 3.6 lbs.

Includes: Power adapter 9VDC @ 130mA

Part No.	Description	1	10
133866	4-channel monitor splitter	$68.95	$61.95

Monitor/Mouse/Keyboard Cables

- 6' or 32'
- HDDB15 male/female for monitor, 5-pin DIN male/female for keyboard, and DB9 male/female for mouse



141284

Part No.	Description	Wt. (lbs.)	1	10
141284	6' cable	1.6	$22.95	$19.95
141276	32' cable	4.8	39.95	35.95

SVGA 2-Channel Monitor Splitter

Duplicate a video signal from one source to 2 monitors up to 245 feet away.



- Suitable for SVGA, VGA and multisync monitors
- 1 HDDB15 male connector from PC to box; 2 HDDB15 female connectors from box to monitors
- LED power indicator
- Size: 6.6"L 3.3"W x 1.1"H
- Weight: 1.4 lbs.

Includes: 9VDC @ 500mA power adapter and manual

Part No.	Description	1	10
176866	2-channel monitor splitter	$49.95	$44.95

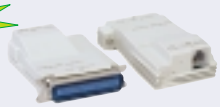
Printer Port Extenders

- 4-wire phone line transfer of parallel printer data
- Maximum distance: 1300' (396 meters)
- Maximum data transfer speed: 21kb/sec.
- Non-powered
- Compact
- Weight: 0.6 lbs.



183337

SALE



183329

183337:
- Transmitter and receiver – DB25M & RJ11 (6P4C) jack
- Size (transmitter and receiver): 3.0"L x 1.9"W x 0.9"H

183329:
- Transmitter: DB25M and RJ11 (6P4C) jack
- Receiver: 36-pin Centronics male and RJ11 (6P6C) jack
- Size (transmitter): 3.1"L x 1.9"W x 0.9"H
- Size (receiver): 2.6"L x 2.1"W x 0.9"H

Includes: 25 ft. RJ11 cable

Part No.	Description	1	10
183337	Printer port (DB25M)	$49.95	$35.95
183329	Printer port (Cent. 36M)	49.95	35.95

4-in/2-out Parallel Switcher



SALE

- Connects 4 PCs to 2 parallel printers
- 4-in/2-out, first-come first-serve auto switch
- Outputs operate simultaneously
- 100kb/sec. data throughput
- Supports flexible broadcast modes
- 5/10/25/60 seconds time out and form feed selectable
- Easy to use front panel button operation
- Input and output connector: DB25 female
- Includes user's manual, 3.5" disk; and 9VDC @ 600mA AC adapter
- Size: 10.7"L x 5.7"W x 1.5"H
- Weight: 3.1 lbs.

Part No.	Description	1	10
183370	4-in/2-out parallel switcher	$14.95	$10.79

ATEN Reversible Parallel Printer Switch

2 computers to 1 printer, or 1 computer to 2 printers



- Supports IEEE 1284 nibble mode
- Switchable via software or switch
- First-come, first-served transfer
- Windows®/DOS compatible
- Cable distance (max.): 20' (see page 150 for cables)
- AC adapter (not included – recommend P/N 100853, pg 68)
- Non-powered (passive)
- 3 ea. DB25-F connectors
- Time out: 10 sec.
- One-year warranty
- Size: 4.0"L x 3.3"W

Includes: Software and manual

Part No.	Description	1	10
127221	1st come, 1st serve transfer	$24.95	$22.49

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Scan Jet 5100C Color Scanner



- 36-bit color image processor
- 600dpi hardware super sampling; 1200 dpi enhanced
- 6ms/line normal exposure rates; 2ms/line fast exposure rate
- One pass color flat bed scanner
- 12% to 400% scaling at 300 dpi resolution
- HP intelligent scanning technology: dual image scanning, automatic page decomposition, automatic raster to vector version for black and white line art images
- Maximum document size: 8.5" x 11.7"
- Input power: 120–240VAC @ 47-63Hz
- Size: 19.1"L x 12.0"W x 4.9"H
- Weight: 12.5 lbs.
- Factory refurbished

System requirements: 486 or better; Windows® 95; 16MB of RAM or more; VGA monitor (256 colors) or greater; and CD-ROM drive

Includes: Manual and software

Part No.	Description	1	10
181956	ScanJet 5100C	$69.95	$67.95

Scan Jet 6200C Color Scanner

SALE



- 36-bit color image processor
- Resolution: 1200dpi hardware sampling
- Scanner type: Flatbed, one pass color and monochrome
- Input modes: front panel scan button, or from software via TWAIN
- Scan speeds: 3, 4, 5, or 6 ms/line (depending on image type and resolution)
- Scaling: unlimited
- Multiple file formats
- Maximum paper size: 8.5" x 11"
- Interface: USB (SCSI capable but requires cable and controller card)
- Size: 19.6"D x 12.3"W x 4.7"H
- Weight: 12.8 lbs.
- Factory refurbished

System requirements: PC with Pentium® (586 or better), 2X CD-ROM, Windows® 95 or better operating system; 16MB of RAM; 40MB hard disk space, VGA monitor, and USB port

Part No.	Product No.	1	10
184794	Scan Jet 6200C	$99.95	$119.95

Series 370 Printer, Scanner and Copier



181948

- Printer cartridges – not included (see below)

Printer
- 600 x 300 dpi (B&W)
- Letter, legal, A4, executive size media
- Plain paper, inkjet paper, transparencies, envelope media type
- 3 ppm (pages per minute)

Scanner • OCR software • 300dpi resolution

Copier • 300 dpi resolution, 8-bit grayscale
- 50 seconds per page
- Up to 99 copies
- Reduction of up to 70% of its original size
- Factory refurbished

Includes: Manual and software

Part No.	Description	1	10
181948	HP Series 370	$89.95	$79.95

Part No.	Description	Price
182967	HP51629A black cartridge	$35.95
182975	HP51649A color cartridge	36.95

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

PS/2 2-Button Mouse



- Compatible with all major application software
- PS/2 connector (6-pin mini DIN)
- IBM PC/XT/AT/PS2 and compatibles
- Size: 4.4"L x 2.5"W x 1.4"H

SALE

Includes: 3.5" drivers

Part No.	Description	1	10	100	500
174326	PS/2 mouse	$4.95	$4.05	$3.35	$2.65

PS/2 2-Button Mouse



- Opto-mechanical encoder
- Compatible with all major application software
- Dynamic resolution and fast tracking speed
- PS/2 connector (6-pin mini DIN)
- Compatible w/ IBM PC/XT/AT 386/486
- Size: 4.2"L x 2.3"W x 1.2"H

Includes: Set up diskette

Part No.	Description	1	10	25
159513	PS/2 mouse	$9.95	$8.95	$7.95

DigiSys PS/2 3-Button Mouse



- Compatible with IBM PC/XT/AT systems
- Compatible with major applications
- Male PS/2 connector (6-pin mini DIN)
- Size: 4.2"L x 1.2"H x 2.5"W

Part No.	Description	1	10	25
166748	PS/2 3-button mouse	$8.95	$7.95	$7.25

3-Button Serial Mouse



SALE

- Microsoft® mouse compatible
- IBM PC/XT and higher compatibles
- Size: 4.3"L x 2.3"W x 1.2"H

Part No.	Description	1	10	50
104441	Serial mouse	$4.49	$3.95	$3.25

QTRONIX® PS/2 2-Button Mouse



- Male PS/2 connector (6-pin mini DIN)
- Compatible with IBM, PS/2 and compatibles
- Compatible with Windows® 95/98
- Wheel for scrolling • Ergonomic design
- High performance application bundled and easy to setup
- Versatile control panel for productivity
- Size: 4.5"L x 2.5"W x 1.5"H

Includes: Installation sheet and 3.5" disk drivers

Part No.	Description	1	10	25
170317	Lynx 3D Net	$9.95	$8.95	$7.95

QTRONIX® Trackball with Menu Software



- Over 24 software menus to ease use of Lotus, dBase, WordPerfect and more
- Variable resolution (20-6400 dpi)
- Convenient button lock feature for holding while dragging and drawing
- Ergonomic design for comfortable feel
- IBM PC/XT and higher compatibles
- 3.5" disk • One-year warranty
- Size: 5.5"L x 4.6"W x 2.0"H • Weight: 1.2 lbs.

Part No.	Description	1	10	25
128995	LIBRA 90 MP PRO	$29.95	$26.95	$23.95

Trackman Marble FX



- Ergonomically designed with large ball for easy precise control
- Marble sensing technology for smooth motion
- One-click scrolling and zooming in Office 97
- Male PS/2 connector (6-pin mini DIN)
- Size: 7.2"L x 3.0"W x 3.0"H • Weight: 1.5 lbs.

System requirements: IBM or compatible systems; Windows® 95 and higher; available serial or PS/2 port

Includes: 3.5" disk drivers, PS/2 to serial adapter and manual

Part No.	Description	1	10
189827	Trackman marble FX	$49.95	$44.95

Space Saving Keyboard Drawers

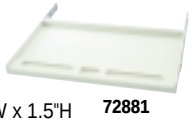


20239: Elevates your CPU or monitor by 4". Frees up desktop space by keeping keyboard out of the way when not in use.

- External size: 22.0"L x 15.5"W x 4.0"H
- Weight: 8.5 lbs.

20239

Includes: Keyboard drawer



72881: Space saving keyboard undercarriage

- External size: 21.5"L x 12.5"W x 1.5"H
- Weight: 4.0 lbs.

72881

Includes: Convenient tray for storing pens and other office supplies

Part No.	Description	1	10	25
20239	CPU stand w/ drawer	$24.95	$23.95	$21.95
72881	Keyboard drawer	14.95	13.49	11.95

Mini Mouse Pad



- Tough non-skid neoprene backing
- Smooth-gliding cloth surface on top
- Size: 7.0"L x 5.5"W • Weight: 0.1 lbs.

Part No.	Description	1	10	100
121363	Mini mouse pad	$1.99	$1.79	$1.59

QTRONIX® 22-Key RS232 Keypad



- Tactile click-sound and touch
- Auto repeat function
- RS232 DB9 connector
- IBM PC/XT and higher compatibles
- 9600 bps, data bits: 8, stop bits: 1, start bit: none, no parity
- 2-key rollover • Color: beige
- Weight: 0.8 lbs. • One-year warranty
- Size: 6.2"L x 4.2"W x 1.3"H

Includes: 3.5" driver diskette and manual

Part No.	Description	1	10	25
129357	Scorpius 22RW	$39.95	$35.95	$32.49

QTRONIX® 17-Key PS/2 Keypad



A compact keypad designed for use with IBM compatible laptops and desktop PC.

- Auto-repeat function
- Tactile click - sound and touch
- Switch life of 20 million cycles
- For IBM PS/2 and compatibles
- Installs into 6-pin mini DIN keyboard connector (no software required)
- Two key roll over • Size: 5.6"L x 3.4"W x 0.9"D
- One-year warranty

Part No.	Description	1	10	25
151811	Scorpius 20PB	$34.95	$31.49	$27.95

QTRONIX® 17-Key USB Keypad



SALE

- Reliable rubber mechanical switches
- USB-A connector
- 17 overall keys with full numeric functions
- Adjustable tile mechanism
- Auto repeat function
- No external power supply needed • Tactile keystroke
- 20,000,000 life cycles per switch
- Size: 3.5"W x 0.9"D x 5.5"H

System requirements: IBM compatible PC, Windows® 98/2000, USB-A port

Part No.	Description	1	10	100
171141	USB keypad	$32.99	$29.29	$26.75

84-Key AT Keyboard



- Tactile feed back • 84-key layout
- AT/386/486 and compatibles
- Size: 12.8"L x 6.6"W x 1.0"H
- Weight: 2.4 lbs. • One-year warranty

Part No.	Description	1	10	25
114868	84-key AT keyboard	$51.95	$45.95	$39.95

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PCI Cards



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Motherboards



See pages 136 – 137

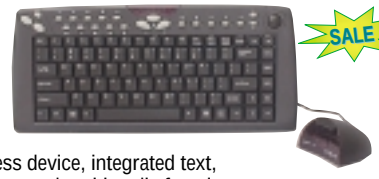
Cases



See page 133

QTRONIX

86-Key Infrared Wireless Keyboard



- Wireless device, integrated text, pointing, and multimedia functions
- Infrared transmitting technology (transmission distance up to 23') • Plug & Play
- 20 hot keys to quickly access internet browser and multimedia performance
- 10 programmable hot keys which can be redefined
- Compatible with IBM PC which supports PS/2
- Size: 14.1"L x 6.3"W x 1.3"H • Weight: 2.1 lbs.

Includes: Keyboard with mini trackball, receiver unit with 6-pin mini DIN (PS/2) male connectors for keyboard and trackball, and CD-ROM drivers

Part No.	Description	1	10
176786	86-key wireless keyboard	$40.95	$36.85

NMB

101-Key Keyboard



- For PS/2 systems • Tactile touch
- LED indicators for Num, Caps and Scroll Locks
- Use P/Ns 85500 or 159089 (pg 149 & 151151 for AT systems)
- 12 function keys w/ separate cursor & numeric keys
- Size: 18.0"L x 6.5"W x 1.5"H • Weight: 3.2 lbs.

Part No.	Description	1	10	25
166836	101-key keyboard ..	$19.95	$17.95	$15.95

COMPAQ

101-Key Keyboard

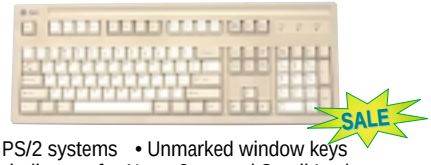


- For PS/2 systems • Tactile touch
- LED indicators for Num, Caps, and Scroll lock
- 12 function keys with separate cursor and numeric keys
- Recommend using adapter P/Ns 85500 or 159089 (pg 149 & 151151)
- Size: 18.3"L x 6.5"W x 1.3"H • Weight: 3.6 lbs.

Part No.	Description	1	10	25
191530	101-Key Keyboard	$19.95	$17.95	$15.95

Sun Microsystems

Win 95 104-Key Keyboard

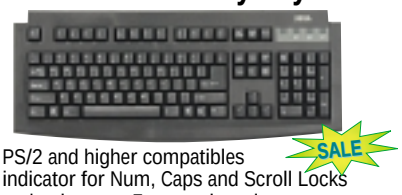


- For PS/2 systems • Unmarked window keys
- LED indicators for Num, Caps and Scroll Locks
- 12 Function keys w/ separate arrow & numeric keys
- Tactile feedback • Tilt mechanism
- Size: 18.2"L x 7.0"W x 1.5"H • Weight: 2.7 lbs.

Part No.	Description	1	10
173649	Windows® 95 104 keyboard	$12.95	$9.19

Keyboard Adapters and Cables — see page 149 & 151

SEGA Win 95 104-Key Keyboard



- IBM PS/2 and higher compatibles
- LED indicator for Num, Caps and Scroll Locks
- Tilt mechanism • Ergonomic style
- 12 function keys • Tactile key
- Use adapter P/N 85500, pg 149 for AT systems
- Size: 18.5"L x 7.0"W x 1.0"H • Weight: 2.7 lbs.

Part No.	Description	1	10	25
135482	104-key keyboard ..	$10.95	$9.95	$8.95

QTRONIX

Win 95 104-Key Keyboard with Jumbo Trackball



- PC/AT and PS/2 compatible w/ DOS 3.0 or higher
- "N-Key" roll-over for quick typists
- Tactile click sound and feel • One-year warranty
- Size: 19.0"L x 6.8"W x 1.4"H • Weight: 3.7 lbs.

Includes: Software and AT cable adapter

Part No.	Description	1	10	25
128717	Scorpius 35PM/NET	$99.95	$89.95	$80.95

QTRONIX

Win 95/98 107-Key PS/2 Keyboard



- IBM PS/2 and higher compatibles
- Use adapter P/N 85500, pg 149 for AT systems
- Designed for Windows® 98 with ACPI keys (wake, sleep and power) • Windows® 95 compatible
- Adjustable tilt mechanism
- Tactile keystroke with high quality rubber mechanical switches • Color: black
- 20,000,000 life cycles per switch
- Size: 18.1"L x 6.3"W x 1.0"H • Weight: 2.2 lbs.

Part No.	Description	1	10
169535	Scorpius 98A	$12.95	$11.95

QTRONIX

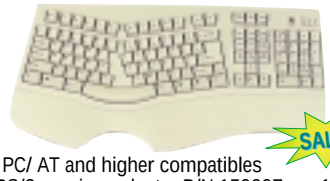
Win 98 107-Key USB Keyboard with PS/2 Port



- IBM PC with USB-A port or higher compatible
- Windows® 95/98 compatible
- ACPI keys (wake-up, sleep, and power) for Windows® 98 • Adjustable tilt mechanism
- Detachable ergonomic wrist wrest
- Tactile key stroke – high quality rubber mechanical switches • 20,000,000 life cycles per switch
- PS/2 mouse port at back of keyboard
- Size: 18.7"L x 6.7"W x 1.0"H • Weight: 2.3 lbs.

Part No.	Description	1	10	25
189317	Scorpius 980+ ...	$29.95	$26.95	$23.95

107-Key Ergonomic Keyboard for Windows® 95



- IBM PC/ AT and higher compatibles
- For PS/2 requires adapter P/N 159097, pg 151
- Built-in wrist rest
- Membrane switch with tactile feedback
- 10 million life cycles per switch
- Size: 19.0"L x 9.5"W x 1.4"H • Weight: 2.9 lbs.

Part No.	Description	1	10
163774	Win 95 ergonomic KB	$24.95	$21.95

QTRONIX

108-Key Compact Keyboard



- IBM PC PS/2 or higher compatible
- Use adapter P/N 85500, pg 149 for AT systems
- LED indicator for Num, Caps, and Scroll Lock
- Supports three Windows® 98 ACPI keys (wake-up, sleep, power) •12 function keys
- High quality rubber mechanical key switches
- Size: 15.5"L x 6.5"W x 1.1"H • Weight: 1.9 lbs.

Part No.	Description	1	10	25
180347	Scorpius 2KP	$39.95	$35.95	$32.49

hp invent

117-Key Multimedia Keyboard for Windows®



- LED indicators for Num, Caps and Scroll Locks
- Mail key button, HP top tools button, internet button, menu button, lock button, HP customer information button, mute and volume buttons, and 4 shortcut buttons • For PS/2 systems
- Use adapter P/N 85500, pg 149 for AT systems
- 12 function keys w/ separate cursor & numeric keys
- Headset and microphone ports
- Adjustable tilt mechanism
- Size: 18.9"L x 7.0"W x 1.6"H • Weight: 4.3 lbs.

Includes: 3.5" drivers

Part No.	Description	1	10	25
176874	Multimedia KB	$17.95	$16.13	$14.55

117-Key Multimedia Keyboard



- For PS/2 systems
- Use adapter P/N 85500, pg 149 for AT systems
- LED indicators for Num, Caps, and Scroll locks
- ± volume buttons, mute button, forward / reverse/play/stop button for multimedia, WWW button, MS DOS button, My Doc button, Menu/? button, screen saver button, close button
- 12 function keys w/ separate cursor & numeric keys
- Size: 18.5"L x 7.0"W x 1.8"H • Weight: 3.6 lbs.

Includes: 3.5" drivers and keyboard labels for buttons

Part No.	Description	1	10	25
174334	Multimedia KB	$9.85	$8.85	$7.95

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

AverKey Pro PC to TV Converter Box



- Converts VGA video or Macintosh® 640 x 480 to standard NTSC
- Built-in flicker filter
- Resolution: 800 x 600
- TV brightness control
- Compatible with Microsoft® Windows® 3.0 and higher
- Two-year warranty
- Size: 6.0"L x 4.0"W x 1.0"H • Weight: 2.2 lbs.

System requirements: VGA-based PC, DOS 3.0 or higher, 640kB RAM or larger

Includes: Compact PC to video converter box, transformer, utilities diskette, cables and manual

Part No.	Description	1	10
167193	Video signal pro	$99.95	$89.95

Audio/Video Adapters (CAT 5 UTP)



155002

- Designed to convert impedance of video/audio signals to 100Ω for transmission over CAT 5 UTP cable
- Supports both NTSC or PAL video signals
- Built-in impedance matching device and filter for video and audio signal transmission
- Use with existing premises wiring and wall jacks for easy and cost effective installation
- Range: 1000' color video, 2000' for B/W video

155070: • Signal pair: video (BNC), CAT pair 1 (RJ45)
155002: • Signal pairs: video (BNC), CAT pair 4 (RJ45); audio 1 (RCA), CAT pair 3 (RJ45); audio 2 (RCA), CAT pair 2 (RJ45)

Includes: 1 RCA to BNC adapter & 2 mounting screws

Part No.	Connector Type	Wt. (lbs.)	1	10
155070	BNC/RJ45	0.1	$27.95	$24.95
155002	BNC/RCA/RJ45	0.3	41.95	36.95

SMK 12VDC RF Modulator



- Output frequency: NTSC Ch. 3/4, switch selectable
- 12VDC RF Modulator
- Operating voltage: 12V@ 50mA max.
- RF output impedance: 75Ω (F-type connector)
- Video modulation: 1.0V p-p
- Audio FM deviation: 1.4V p-p
- PC connections: solder tab connectors
- Size: 1.7"L x 1.7"W x 0.7"H
- MFG. #: WMN2144-01

Part No.	Description	1	10	50	100
141639	RF modulator	$4.95	$4.49	$3.95	$3.25

Desktop Microphone



- Connector: 3.5mm male stereo plug
- Neck length: 17.5"
- Cord length: 5.5'
- One-year warranty

Part No.	Description	1	10	25
129963	Desktop microphone	$4.95	$4.49	$3.95

Hands-Free Condenser Microphone



- Connector: 3.5mm male stereo plug
- Cord length: 8'
- One-year warranty
- Size: 1.9"L x 1.2"W x 0.3"H

Part No.	Description	1	10	25
135247	Microphone	$4.49	$3.99	$3.49

120 Watt Multimedia Self-Amplified Speaker System



- 2-way speaker system: 4" woofer and 2" tweeter
- Magnetically shielded
- 4Ω impedance
- Power LED, knob controls for volume, bass and treble
- Input voltage: 120VAC @ 60Hz
- Size: 10.5"H x 6.0"W x 6.2"D • Weight: 8.6 lbs.

Part No.	Description	1	10
180363	120W speaker system	$39.95	$35.95

200 Watt Multimedia Self-Amplified Speakers



- Input voltage: 120VAC
- 2 speakers
- Magnetically shielded
- 2-channel stereo amplifier
- Knob controls for volume, bass and treble
- Push button type powerswitch with LED indicator
- Size: 5.5"W x 7.0"D x 8.5"H • Weight: 7.3 lbs.

Part No.	Description	1	10
180304	200W speakers	$49.95	$44.95

15 Watt Multimedia Self-Amplified Speakers



- 2 speakers
- Headset jack
- Volume controls
- Size: 2.9"W x 4.7"D x 7.2"H
- Weight: 2.7 lbs.

Includes: 9VDC class 2 transformer

Part No.	Description	1	10	25
140020	15W speakers	$12.95	$11.49	$9.95

4 Watt Amplified Stereo Speakers

Fits 5.25" Bay



- 8Ω speakers with frequency response of 250Hz to 20kHz @ 83dB
- Compatible with all sound boards, CD-ROMs, CD digital audio players and MPC systems
- Size: 5.8"W x 7.5"D x 1.7"H • Weight: 1.4 lbs.

Part No.	Description	1	10
153541	Self-amplified speakers	$59.95	$49.95

Telephone Headset

A condenser microphone with adjustable gooseneck boom. Swinging earpiece allows headset to be worn on either ear.



- Connector: 3.5mm male stereo plug
- Gooseneck length: 4.9"
- Compatible with Motorola cell phones
- Cord length: 4'3" • Color: beige

Part No.	Description	1	10	25
189923	Telephone headset	$14.95	$13.49	$11.95

In-Ear Stereo Headphones



- 3.5mm input jack connector
- Typical application: CD-ROM drive
- Color: gray
- 4' Long

Part No.	Description	1	10	100	1000
191880	Stereo headphones	$2.95	$2.49	$1.75	1.25

Headset with Microphone



- Color: black
- 3.5mm male jack connector
- Weight: 0.2 lbs.

Headphones:
- Frequency range: 20Hz to 18kHz
- Impedance: 320W
- Max. power input: 100mW
- Sensitivity: 96dB @ 1kHz

Microphone:
- Frequency range: 50Hz to 12.5kHz
- Output impedance: <2kΩ
- Sensitivity: 58dB

Part No.	Description	1	10	25
190588	Headphones w/ mic.	$12.95	$11.49	$9.95

COBY® Omni-Directional Microphone Headset



- Frequency range: 20Hz to 20kHz (headset); 50Hz to 16kHz (microphone)
- Impedance: 32Ω (headset); low (microphone)
- Maximum power: 100mW
- Sensitivity: 98dB (headset); -62dB (microphone)
- Swivel microphone arm pivot
- Flexible microphone arm • 6' cord
- Two 1/8" phone jacks

Part No.	Description	1	10	25
153875	Microphone headset	$11.95	$10.75	$9.69

Omni-Directional Microphone Headset



SALE

- Freq. range: 200 to 6kHz (headset); 20 to 6kHz (microphone)
- Swivel microphone arm pivot
- Flexible microphone arm
- Connector: 3.5mm stereo plug (2)
- 8' cord • One-year warranty

Part No.	Description	1	10
132302	Microphone headset	$11.95	$9.95

"Surge Plus" Power/Modem Protector

SALE



Added Protection

Internet Users – Protect Your Modem!

- Plugs directly into power outlet
- Maximum rating: 15A/125AC
- Power outlet
- Protected telephone RJ11 jack (6P4C)
- Lifetime warranty
- Size: 3.3"L x 2.2"W x 1.2"H • Weight: 0.2 lbs.

Part No.	Product No.	1	10	100
160901	700-1M	$6.95	$6.25	$4.95

Serial Cable Surge Suppressor

Protects your sensitive line drivers/receivers against damaging power surges.



SALE

- In-line adapter to protect serial devices
- DB25 (female to male)

Part No.	Description	1	10	100
72371	RS232 surge sup.	$2.19	$1.99	$1.79

See pages 159 - 161 for our complete line of power protection products

TRIPP-LITE isobar® Surge Suppressors


74544


19001


185113


139686

The world's best known, most advanced surge suppressors provide total protection against surges, spikes and line noise.

- Diagnostic indicators on Ultra versions alert you to improper outlet wiring, loss of AC power, and damage to protection circuitry
- "Cascade Circuitry" allows you to chose increased noise protection level for your most sensitive equipment
- UL 1449 and 1283 listed • Lifetime warranty
- IsoTel model has dual RJ11 jacks for complete modem/fax surge protection
- 2, 4 & 6-outlet suppressors: 6' cord; 8 & 12-outlet suppressors: 12' cord
- Up to $50,000 Ultimate Lifetime Insurance covers Isobar and connected equipment against surge damage for life!

ULTIMATE LIFETIME INSURANCE

MADE IN USA

Isobar Premium Surge Suppressors

Part No.	Product No.	Joules	Description	Wt. (lbs.)	1	10
74456	ISOBAR 2-6	600	2 outlet, 1 isolated filter	1.8	**$39.95**	**$34.95**
18981	ISOBAR 4	2200	4 outlet, 2 isolated filters	2.4	**49.95**	**44.95**
74544	ISOBAR 6	2350	6 outlet, 3 isolated filters	2.7	**49.95**	**44.95**

Isobar Ultra Premium Surge Suppressor

136830	ISOBAR 4U	2200	4 outlet, 2 isolated filters	2.4	**$89.95**	**$79.95**
148021	ISOBAR 6U	2350	6 outlet, 3 isolated filters	2.7	**84.95**	**74.95**
19001	ISOBAR 8U	2350	8 outlet, 4 isolated filters	3.5	**69.95**	**62.95**

Isotel AC/Phone Line Surge Suppressor

185113	ISOTEL 4U	2700	4 outlet, 2 isolated filters	2.7	**$57.95**	**$44.95**

Isobar Premium 19" Rack Mount Surge Suppressor

139686	IBAR12RM	750	12 outlet, 2 isolated filters	4.7	**$99.95**	**$89.95**

TRIPP-LITE Standard Surge Suppressors


124337


32045


168954

Economical and effective spike and noise suppression.

- Super 7: $25,000 Ultimate Life Insurance
- Super 8: $35,000 Ultimate Life Insurance
- Super 7+ models include RJ11 jacks for complete dataline protection
- Super 7 and Super 8 feature diagnostic LEDs

Part No.	Product No.	Joules	Description	Wt. (lbs.)	1	10
168954	Super 6	450	Up to 27,000 amp spikes	1.2	**$9.95**	**$9.25**
124337	Super 7	1050	Up to 42,000 amp spikes	1.6	**17.95**	**14.95**
168962	Super 7+	1200	Up to 36,000 amp spikes	2.0	**19.95**	**17.95**
32045	Super 8	1200	Up to 54,500 amp spikes	1.7	**29.95**	**26.95**

TRIPP-LITE Line Conditioners


24619

These line conditioners keep you working through brownouts and overvoltages.

- Automatically adjust incoming AC from 87 to 140 volts
- Built-in surge suppression and noise filtering
- Up to $25,000 Ultimate Lifetime Insurance for connected equipment

Part No.	Product No.	Description	Agency	Wt. (lbs.)	1	10
24619	LS600	600 watts, 2 outlets	—	4.5	**$75.95**	**$72.95**
22744	LC1200	1200 watts, 4 outlets	UL/CSA	8.6	**129.95**	**116.95**

TRIPP-LITE BC Pro UPS Systems


124222

- Protect PC and workstations against blackouts, brownouts, surges, spikes and line noise
- 6 outlets and RJ11
- Free PowerAlert software for unattended shutdown during blackouts
- Up to 75 minutes runtime

Part No.	Product No.	Description	Agency	Wt. (lbs.)	1	10
124222	BCPRO600	600VA, 6 outlets	UL/CSA	15.1	**$179.95**	**$169.95**
185105	BCPRO1050	1050VA, 6 outlets	UL/CSA	35.0	**429.95**	**379.95**
124273	BCPRO1400	1400VA, 6 outlets	UL/CSA	41.5	**568.95**	**518.95**

TRIPP-LITE Internet Office UPS Systems


191521


185130

- Protects your PC, fax/modem and all peripherals against all types of power problems
- Automatic system shutdown with free PowerAlert software for 500VA and 700VA
- **191521:** 6 outlets, RJ45 for network protection
  185130/185148: 6 outlets, RJ11 for fax/modem protection
- Up to $25,000 Ultimate Lifetime Insurance for connected equipment • Up to 45 minutes runtime

NEW

Part No.	Product No.	Description	Agency	Wt. (lbs.)	1	10
191521	IO300	300VA, 6 outlets	UL/CUL	4.5	**$99.95**	**$89.95**
185130	IO500	500VA, 6 outlets	UL/CSA	16.0	**134.95**	**124.95**
185148	IO700	700VA, 6 outlets	UL/CSA	20.0	**188.95**	**169.95**

TRIPP-LITE Smart USB UPS Systems


185156

- Protect USB PCs
- 6 outlets (3 surge and 3 UPS/surge) and RJ11 for fax/modem protection
- Automatic shutdown with PowerAlert software
- AVR corrects incoming voltage to 120 volts

Part No.	Product No.	Description	Agency	Wt. (lbs.)	1	10
185156	500USB	500VA, 6 outlets	UL/CSA	15.5	**$179.95**	**$161.95**
185164	700USB	700VA, 6 outlets	UL/CSA	17.5	**239.95**	**219.95**

Same business day shipping until 6:00 p.m. EST.

See Zone Chart on page 182



19" Rack-Mount 6-Outlet Power Strip



- Maximum rating: 15A, 125VAC, 60Hz
- 1875 watts continuous duty
- Outlets: 30-duplexed "U" grounded
- 6' 14/3 SJT black molded plug
- Circuit breaker protection • One-year warranty
- Size: front plate: 19.0"L x 1.7"W; back cover: 17.0"L x 1.7"W x 2.4"D; mounting centers: 18.3"L x 1.3"W • Weight: 2.8 lbs.

Part No.	1	10	25	50
134295	**$59.95**	**$53.95**	**$48.95**	**$43.95**

System Power/Surge Controller With Fax Modem Protection



- 4 switched AC power outlets
- Input voltage: 125VAC @ 50/60Hz
- Max. surge dissipation (AC): 2250 joules • Color: gray
- Max. surge dissipation (telephone): 120 joules
- Max. spike current (AC) 117,000 amps
- UL 1449 clamping voltage (AC): 330V
- Size: 14.0"W x 13.5"D x 1.7"H
- Weight: 4.4 lbs.

Part No.	Description	1	10	50
185640	Power base	**$29.95**	**$26.95**	**$23.95**

System Power/Surge Controller With Fax Modem Protection

4 Switched AC Power Outlets



- Input voltage: 125VAC @ 50/60Hz
- Max. surge dissipation (AC): 900 joules
- Max. surge dissipation (telephone): 49 joules
- Max. spike current (AC) 12,000 amps
- UL 1449 clamping voltage (AC): 330V
- Top cover slides out for cord organization and extended outlet • Color: beige
- Size: 13.5"W x 14.5"D x 1.7"H • Weight: 4.2 lbs

Part No.	Description	1	10	50
185631	Power base	**$24.95**	**$22.49**	**$19.95**

Power Base Surge Protector

- 5 switched AC power outlets & 1 unswitched • 2 RJ11 ports • Max. surge voltage: 6000V
- Max. energy dissipation: 50 joules/MOV, 150 joules • UL approved

Part No.	Description	Size (W x D x H)	Wt. (lbs.)	1	10	50
20159	Power base	13.9" x 12.7" x 1.7"	7.1	**$14.95**	**$13.49**	**$11.95**



Over 6,000 Quality Products

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

Automatic Voltage Regulator, Surge Protectors, Surge Arrest, Power Management

LR Series Automatic Voltage Regulator


191302

- Nominal input voltage: 120VAC@50/60Hz (auto sensing)
- Input connection type: NEMA5-15P
- Output connection type: NEMA 5-15R
- Maximum line current: 8A
- Surge energy rating: 320 joules
- EMI/RFI noise rejection: 50dB
- Over voltage correction and brownout correction LED status indicator
- UL 1449 TVSS rating: 400V • Size: 5.0"H x 6.8"W x 8.4"D
- Two-year manufacturer warranty w/ $25,000 lifetime equipment protection policy

Part No.	APC No.	Watts	Weight (lbs.)	1	10
191302	LR600	600	12.5	$129.95	$116.95
191290	LR1250	1250	17.8	179.95	161.95

P6 Series Basic Surge Protector



- Nominal input voltage: 120VAC@50/60Hz (auto sensing)
- Receptacle style: NEMA 5-15R
- Surge energy rating: 320 joules
- Peak current normal mode: 13.0kAmps
- UL 1449 TVSS rating: 330V
- Lifetime manufacturers warranty w/ $1,000 lifetime equipment protection policy

Part No.	APC No.	Size (H"xW"xD")	# Receptacles	1	10
191281	P6	1.4 x 2.2 x 12.4	6	$14.95	$13.49

P7T Series Basic Surge Protector


191329

- Nominal input voltage: 120VAC@50/60Hz (manual switch)
- Receptacle style: NEMA5-15R
- Surge energy rating: 420 joules
- Peak current common mode: 20.0kAmps
- UL 1449 TVSS rating: 330V • Number of receptacles: 7
- Size: 1.4"H x 3.0"W x 2.0"D • Weight: 1.7 lbs.
- Lifetime warranty with $1,500 lifetime equipment protection policy

Includes: Manual and two 5' telephone cables

Part No.	APC No.	Description	1	10
191329	P7T6	Surge Protector w/ 6' cord	$19.95	$17.95
191337	P7T10	Surge Protector w/ 10' cord	24.95	22.95

PER Series Personal Surge Arrest


191273

- Nominal input voltage: 120VAC@50/60Hz (auto sensing)
- PER3C: 3 outlet with cable TV protection; PER7: 7 outlet; PER7T: 7 outlet w/ RJ 11 fax/modem protection
- Surge energy rating: 240 Joules
- Peak current normal mode: 6.5kAmps
- Peak current common mode: 13.0kAmps • EMI/RFI noise rejection: 60dB
- UL 1449 TVSS rating: 330V • Receptacle style: NEMA5-15R
- Lifetime warranty with $2,500 lifetime equipment protection policy

Part No.	Product No.	Size (H"xW"x D")	Weight (lbs.)	1	10
191273	PER3C	2.0 x 4.3 x 6.3	1.3	$34.95	$31.49
191265	PER7	2.0 x 4.3 x 10.5	2.1	29.95	21.56
191855	PER7T	2.0 x 4.3 x 10.5	2.3	39.95	35.95

UPS Monitoring Kit



Monitors your UPS system for AC failures, UPS shutdown, low battery signal, and I/O address. All functions are switch selectable.



- System software requirements: NOVELL ELS NetWare Level I versions 2.12; NOVEL ELS NetWare Level II versions 2.12 and higher; NOVELL Advanced NetWare versions 2.1 and higher; NOVELL SFT NetWare versions 2.1 and higher; NOVELL NetWare 386 versions 3.0 and higher

System hardware requirements: File server with AT style bus; APC UPS system equipped with an interface connector

SALE

Includes: Manual and cable

Part No.	APC #	Size (L"xW")	Weight (lbs.)	Price
180769	AP9500	4.3 x 3.9	0.6	$9.25

Information at Your Fingertips

Log onto our website for specials, technical tips and expanded product information

www.jameco.com

PRO7/PRO8 Series Professional Surge Arrest


191311

- Nominal input voltage: 120VAC@50/60Hz (auto sensing)
- Pro7: 7 outlet; PRO8T2 & PRO28T2C: 8 outlet with RJ11 modem/fax/DSL protection; PRO8TV: 8 outlet w/ coaxial cable and RJ11 modem/fax/DSL protection • Receptacle style: NEMA5-15R
- Input connection style: NEMA5-15P • Surge energy rating: 320 joules
- Peak current normal and common mode: 13.0kAmps
- EMI/RFI noise rejection: 60dB • UL1449 TVSS rating: 330V
- Lifetime warranty with $10,000 lifetime equipment protection policy

Includes: PRO8 series: 5' telephone cable

Part No.	Product No.	Size (H"xW"xD")	Weight (lbs.)	1	10
191847	PRO7	2.0 x 4.3 x 10.5	2.3	$49.95	$44.95
191839	PRO8T2	1.8 x 8.0 x 5.8	2.5	69.95	62.95
191311	PRO8T2C	1.8 x 8.0 x 5.8	2.5	49.95	44.95
191791	PRO8TV	1.8 x 8.0 x 5.8	2.5	99.95	89.95

POW6T Power Manager



- Nominal input voltage: 120VAC@50/60Hz (auto sensing)
- Number of receptacles: 6
- Receptacle style: NEMA5-15R
- Input connector type: NEMA5-15P
- Peak current normal mode: 13kAmps • Surge energy rating: 480 joules
- Peak current common mode: 26kAmps • UL1449 TVSS rating: 330V
- Lifetime warranty with $25,000 lifetime equipment protection policy

Part No.	Product No.	Size (H"xW"xD")	Weight (lbs.)	1	10
191804	POW6TWHT	1.7 x 12.5 x 14.6	6.0	$134.95	$121.49

PNOTEPRO Series In-line Surge Protector


191821

- Input voltage: 100-240VAC@50/60Hz (auto sensing)
- PNOTEPRO: C8 type connector (2 prong); PNOTEPRO3: C6 type connector (3-prong)
- Surge energy rating: PNOTEPRO – 120 joules; PNOTEPRO3 – 180 joules
- Input connection type: IEC 320 • RJ11 telephone protection
- Five-year standard warranty with $5,000 equipment protection policy
- Size: 1.5"H x 1.3"W x 4.8"D

Includes: Manual, 5' telephone cable and Velcro cord management

Part No.	Product No.	1	10
191821	PNOTEPRO	$59.95	$53.95
191812	PNOTEPRO3	59.95	53.95

BUSSMANN Line Conditioners


174203 174211

- Protects equipment from normal mode and common mode transients and noise
- Controls high frequency circulating ground currents
- Designed for computer equipment, telecommunications equipment, instrumentation equipment

174191/174203: 4-receptacle 174211: 6-receptacle

SALE

Part No.	Bussman No.	Load Current	Watts	Size (W"xD"xH")	Wt. (lbs)	1	10
174191	IPS06005R	5A	600	5.3 x 6.0 x 9.0	16.7	$59.95	$53.95
174203	IPS01000R	8.3A	1000	6.0 x 7.0 x 11.0	27.5	89.95	79.95
174211	IPS02000R	16.0A	2000	7.3 x 8.3 x 13.5	54.9	67.95	61.29

POWERWARE ONE UPS 300 Watt UPS System

With Dual Outlet



SALE

- Protects against blackouts and brownouts
- Battery charging: less than 6 hours to 90% usable capacity
- Battery backup time: 5–10mins. @ full load; 10–20 mins. with partial load
- Input voltage: 120VAC @ 60Hz • Output voltage: 120VAC
- Output current: 2.5 amps (full load)

Part No.	Product No.	Size (L"xW"xD")	Wt. (lbs.)	1	10
179961	PRB300A	5.8 x 3.4 x 13.2	12.4	$59.95	$48.95

APC BPS Series 280-Watt Back-up UPS PRO



- Back-up time at half load: 23.4 minutes
- Typical recharge time: 4 hours
- Surge energy rating: 480 joules
- On-line, on-battery, replace battery, and overload LED status indicators
- Alarm when on-battery, distinctive low battery alarm, overload continuous tone alarm
- RJ45 modem/fax/DSL/10-100 base-T protection
- Nominal input/output voltage: 120VAC @ 50/60Hz (input auto sensing)
- Input connection type: NEMA 5-15P
- Output connection type: NEMA5-15R
- Two-year manufacturer warranty w/ $25,000 lifetime equipment protection policy

Includes: User manual, Velcro cord management straps, Smart UPS signaling RS232 cable and CD-ROM software

Part No.	Product No.	Watts	Size (H"xW"xD")	Wt. (lbs.)	1	10
191345	BP280S	280	5.9 x 3.4 x 13.3	20.4	$149.95	$134.95

IBM 8-Outlet Surge Protectors

- UL1449 Transient voltage: 330V
- Clamping voltage: 270V • 3-line protection
- Electrical rating: 125VAC @ 60Hz
- Max. Surge voltage: 6000V
- With integral 15A circuit breaker
- 4 standard/4 transformer outlets
- Sliding outlet cover, LED indicator for surge protection, lighted power switch

NEW



191919



191927

191919 / 191935: Max. Spike current: 65,000A
191927: Max. Spike current: 52,000A

Part No.	Energy Rating	Description	Weight (lbs.)	1	10
191935	1420 Joules	8-outlet	2.0	$59.95	$53.95
191927	1420 Joules	8 outlet with 2 RJ14 ports (cables included)	2.2	64.95	58.95
191919	1820 Joules	8 outlet with 2 RJ14 and Coax ports (cables included)	2.8	69.95	62.95

6-Outlet Power Strips

156857:

- Max. spike current: 18,000 amps, 400 joules
- 3-prong, 4' power cord
- Plastic
- UL/CUL approved
- Size: 10.3"L x 2.0"W x 1.5"H



156857



20175

20175:

- Max. spike current: 4500 amps, 50 joules
- 3-prong, 4' power cord • Metal
- Size: 12.3"L x 2.4"W x 1.3"H

Part No.	Description	Wt. (lbs.)	1	10	100
156857	Plastic pwr strip	1.0	$6.95	$6.25	$5.59
20175	Metal pwr strip	1.5	8.95	7.95	6.95

Woods 6-Outlet Power Strip



- Plastic housing
- 3-prong 4' power cord
- Grounded outlet receptacles
- 125V @ 15A built in circuit breaker
- Lighted on/off switch
- Color: beige
- Size: 10.1"L x 1.5"W x 1.0"H • Weight: 1.0 lb.

Part No.	Woods No.	Agency	1	10	100
172419	10728	UL/CUL	$4.95	$4.49	$3.95

4' Rack Cabinet 10-Outlet Power Strip



- Rating: 15A, 125VAC, 60Hz
- Surge protection and EMI/RFI filtering
- Cord length: 6' • Color: black • One-year warranty
- Size: 4.0'L x 2.0"W x 1.5"H • Weight: 4.0 lbs.

Includes: Universal mounting clips

Part No.	Description	1	10
144098	10-outlet power strip	$49.95	$44.95

Over 6,000 Products Stocked

- Integrated Circuits
- Electronic Components
- Optoelectronics
- Electromechanical Devices
- Interconnect Devices
- Power Products
- Wiring Accessories
- Computer Products

Modems

AUREAL PCI 56kbps Internal Fax/Modem Card



- Data compatible to V.90; V.34; V.32bis; V.32; V.22bis; V.22; V.21 Bell 212A and 103
- Data modem error correction compatible V.42; LAP-M, and MNP2-4
- Data modem compression compatible V.42bis & MNP5
- Data fax compatible V.17; C.29; V.27ter; V.21; and group III fax class I • Size: 4.8"L x 2.4"W

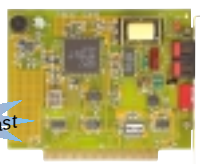
System requirements: 300MHz Pentium® or higher compatible; Windows® 95/98/2000; 32MB of RAM; 10MB hard disk space

Includes: Phone cable, manual and CD-ROM drivers

Part No.	Description	1	10
171918	PCI 56kbps int. modem	$27.95	$24.95

Perfect DataFax™ Fax/Modem

NEW



While supplies Last

- 9600 bps fax
- 2400 bps modem, with MNP-5 software
- True background send/receive
- COM1 - COM4 switch selectable
- Connects to your existing phone line for travel/home use • Made in the USA
- Five-year warranty • Weight: 1.6 lbs.

Part No.	Description	1	10
17013	Internal fax/modem	$14.95	$13.49

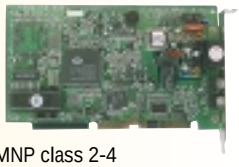
PHOEBE Modems

- Create voice and fax mail boxes w/ unique greetings
- Five fault locating tests
- Ultra reliable data transfer using V.42 bis/MNP5 error correction • FCC compliance
- PC/XT/AT and Pentium® compatibles

ISA 56kbps Data/Fax Internal Modem Card

With Voice Mail and Speakerphone

V.90 Dual Mode!



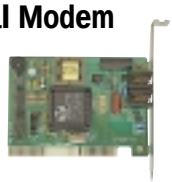
- Modulation standard: V.90, X2, V.34, V.32bis, V.32, V.29, V.27ter, V.22bis, V.23, V.22, V.21, V.17, Bell212/103
- Compression: V.42bis, MNP class 5
- Error correction: V.42, MNP class 2-4
- Fax command: EIA/TIA 578 class I
- 16550 Compatible UART • COM ports: 1, 2, 3, 4
- IRQ 3, 4, 5, 7, 10, 11, 12 • Fax group III
- Size: 5.8"L x 3.4"W • Weight: 0.8 lbs.

Includes: CD-ROM drivers and cable

Part No.	Description	1	10
145023	ISA 56kbps int. modem	$55.95	$49.95

ISA 14.4 Internal Modem

Rockwell Chipset



- RC144ATF-P Rockwell chipset
- Windows® 95 compliant
- Jumper selectable IRQ 2, 3, 4, 5, 7
- Size: 4.1"L x 2.7"W

Part No.	Description	1	10
183441	14.4 internal modem	$9.95	$7.15

External 56kbps Fax/Modem



- 9-pin serial interface
- Data compatible to ITU-T V.34; V.32bis; V.32; V.22bis; V.22; V.21; Bell 212A and 103
- Fax compatible to ITU-T V.17; V.29; V.27ter; V.21
- Error checking compatible to V.42bis and MNP 2-4
- Data compression compatible to V.42 and MNP 5
- Enhanced AT command set, Fax class 1 and 2
- Data compatible to IUT-T V.90 and K56 Flex
- Size: 5.9"L x 4.6"W x 1.3"H • Weight: 2.3 lbs.

Includes: Serial and phone cable, CD-ROM drivers and manual, and 12VAC @ 1A power supply

Part No.	Description	1	10
145031	Serial modem (Rockwell)	$69.95	$62.95

PCI 56kbps Fax/Modem/Voice Card



- Motorola 62412-51 chipset
- Data ITU-T V.90 and 56Flex compatible
- ITU-T V.34; V.32bis; V.32; V.22bis; V.22
- V.42bis and MNP-5 data compression compatible
- Full duplex speaker phone
- V.42 and MNP2-4 error correction compatible
- V.80 (H.324 video conferencing interface compatible)
- V.17 (14,400bps Fax) • Voice/audio mode
- Size: 4.7"L x 2.8"W • Weight: 0.6 lbs.

Includes: Manual, cable and drivers on CD-ROM

Part No.	Description	1	10
172881	PCI 56kbps modem	$37.95	$33.95

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

Network Data Router



- LED indicators for status, LAN, ISDN, and channels
- LAN Interface: 10Base-T or 100Base-T (RJ45)
- ISDN interface supports BRI (Basic Rate Interface)
- BRI provides two independent (B) channels which can run to separate destinations, and a signaling (D) channel
- Maximum power consumption: 14 watts
- Size: 9.5"L x 9.5"W x 1.7"H • Weight: 5.6 lbs.

SALE

Includes: Manual, CD-ROM and power supply

Part No.	Product No.	Price
180195	ER8100	$159.95

Network Data Router



- LED indicators for system, WAN, and LAN
- PC Card (PCMCIA slot)
- LAN interface: 10Base-T (RJ45) and 10Base5 (AUI)
- WAN interface: X.21/V.11; V.24/V.28; V.35 or V.36
- Routing protocols: IP, NOVELL IPX RIP/SAP
- Forwarding ratios: 4,276 packets/second
- Filtering speed: LAN up to 14,800 packets/second
- Supports frame relay and X.25
- Maximum power consumption: 25 watts
- Size: 12.0"L x 9.2"W x 2.6"H • Weight: 9.3 lbs.

SALE

Includes: Manual, RJ45 cable, CD-ROM (Device View 2.0 for Windows®)

Part No.	Product No.	Price
180208	ER9200	$249.95

ISA Ethernet Cards

10Mbps



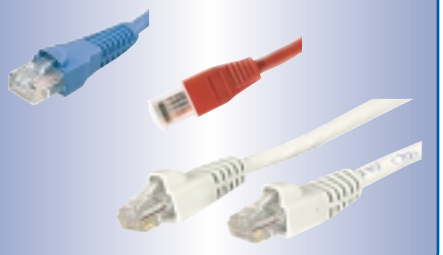
144936

- Supports Novell NetWare, Windows® NT, LAN Manager, UNIX TCP/IP, Windows® 95/3.1
- FCC class approved
- LED indicators for diagnostics

Includes: 3.5" disk driver

Part No.	Description	1	10
133022	RJ45	$12.95	$11.95
144936	RJ45 and BNC	14.95	13.49

See page 152 for our complete line of Modular Data Network Cables

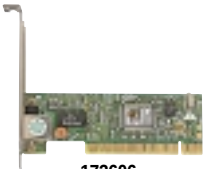


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PHOEBE PCI Ethernet Cards

10/100Mbps, Auto Detect



173606

SALE



173614

- 32-bit PCI bus mastering for high throughput and low CPU command
- Complies with IEEE 802.3 ethernet standards
- Full duplex and half duplex operation
- Auto negotiation functions
- Plug & Play installation
- Auto set IRQs and I/O address
- LED indicators for link and activity status

173606: RJ45
- Size: 4.8"L x 1.3"W
- Weight: 0.4 lbs.

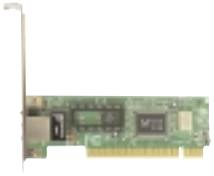
173614: RJ45 w/ WOL (Wake On Lan) Function
- Size: 4.7"L x 3.0"W • Weight: 0.7 lbs.

Includes: 3.5" disk drivers and manual

Part No.	Description	1	10
173606	RJ45 (10/100Mbps)	$14.95	$13.49
173614	RJ45 (10/100Mbps) w/ WOL	29.95	26.95

PCI Ethernet Card

10/100Mbps



- LED indicators for diagnostics
- Supports Novell NetWare, Windows® NT, LAN, UNIX Manager, TCP/IP, Win® 95/3.1
- FCC class approved
- Remote bootable socket • 32-bit PCI Bus

Includes: 3.5" disk drivers

Part No.	Description	1	10
153402	RJ45 (10/100Mbps)	$19.95	$17.95

PCMCIA Type II Combo BNC and RJ45 Ethernet Card

10Mbps



- 10BaseT/10Base2 adapter
- Supports Novell Netware® 3.x/4.x, Microsoft® LAN Manager, Windows® for Workgroups 3.11, Windows® 3.1 and Windows® NT 3.51, Windows® 95 and packet driver
- Weight: 0.8 lbs. • One-year warranty

Includes: RJ45 and BNC connectors, manual and 3.5" disk drivers

Part No.	Description	1	10
132581	PCMCIA network card	$49.95	$45.95

Ethernet Drop Cables

SALE



180734

- DA15 connectors with metal hoods
- IEEE802.3 transceiver compliant

180734: • Length: 2' • Wt.: 0.6 lbs.
181340: • Length: 10' • Wt.: 1.4 lbs.

Part No.	Description	Length	1	10
180734	2' DA15 M-F	2'	$5.25	$4.75
181340	10' DA15 M-F	10'	12.95	11.49

"We're here to provide the support you want."



Order 24/7, 365 Days a Year

Ethernet Hubs

10Mbps



153891

153891: 5-port
- Connectors: 5 RJ45 (TP); 1 uplink (TP cascade)
- Size: 5.4"L x 3.8"W x 1.1"H

153904: 8-port
- Connectors: 8 RJ45 (TP); 1 uplink (TP cascade); 1 BNC
- Size: 7.8"L x 4.0"W x 1.2"H

Includes: Manual and power supply

Part No.	Description	Wt. (lbs.)	1	10
153891	10BaseT 5-port	1.4	$39.95	$35.95
153904	10Base2/T 8-port	1.7	49.95	44.95

Ethernet 10Base5 to 10BaseT Transceiver

10Mbps



- For 10Mbps CSMA/CD LAN
- FCC class A approved
- LED indicators for power, link, receive and collision
- Size: 2.7"L x 1.6"W x 0.8"H
- One-year warranty

Part No.	Product No.	Description	1	10
130315	JE5001	10BaseT trans.	$29.95	$26.95

Token Ring-to-RJ45 Adapter



- Easy connection to UTP cabling
- Use type A or B style data connector with RJ45 jack
- Determine cable length (flexibility)
- Dimensions: 2.5"L x 1.0"W

Part No.	Description	1	10	100
125461	Token ring	$11.95	$10.75	$9.75

Token Ring to Cable Connector Kit

Requires Assembly



- Token ring to cable connector
- 10 piece kit
- Color: black
- Material: plastic

Part No.	Description	1	10	100
183290	Token ring conn.	$5.95	$5.35	$4.49

BNC Coax Network Balun



SALE

- Converts BNC coaxial cable to twisted-pair wires with both a modular (RJ11) jack and 2 screw terminals
- 100Ω termination

Part No.	Description	1	10	50
72637	BNC coax network balun	$4.95	$4.49	$3.95

www.jameco.com

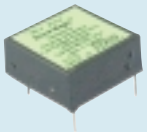
QUIKLINK Automatic Telephone Ring Down Unit



- Applications: elevator and door entry phones; in-office and off-premise emergency hotlines; tie lines between phones, PABX and Key systems; CO line simulators for sales demonstrations; testing rings, answering, and signal path functions in telecom repairs, installation and production
- Ringing power: 70V @ 20Hz modified square wave
- Power input: 12VAC @ 700mA (maximum)
- Line feed type: two wire unbalanced
- Maximum loop resistance: 600Ω
- Termination: 4-40 screws
- LED hook status indicator; ringing cadence: continuous / 1 second on 1 second off / 2 seconds on 2 seconds off / 2 seconds on 4 seconds off; additional power input: 20 to 28VDC@300mA maximum; RJ11 terminations
- Size: 4.2"L x 2.5"W x 0.5"H

Part No.	Description	1	10
179936	S002 (standard model)	$99.95	$89.95

Black Magic Telephone Ringing Generator



Switching inverter that produces low-frequency alternating current to signal telecom ringers or equivalents.

- Frequency: 20Hz
- Series resistor: 300Ω
- Nominal output voltage: 86 Vrms
- No reverse polarity protection

Part No.	Product No.	1	10	25
145816	LBMR12	$24.95	$22.49	$19.95

3-Way Telephone Line Adapter



- Connect two or three devices (e.g. telephone, fax, modem) to one line
- Internal switch prevents interruptions; when one line is in use other lines cannot be used
- For standard telephone lines
- Size: 2.5"L x 1.8"W x 0.9"H • Cord length: 6' 7.5"

Part No.	Description	1	10
144848	3-way telephone adapter	$9.95	$8.95

Phone Line Busy Indicator



Perfect for multiple users who share one dedicated phone line.

- Compatible with all network services
- Strictly an indicator – will not interfere with emergency operation of phone line
- Size: 2.3"L x 1.3"W x 0.8"H

Part No.	Description	1	10	25
134261	Line indicator	$9.95	$8.95	$7.95

Busy Line Switch



- Prevents accidental line interruptions when line is currently in use
- RJ11 6P2C connector; cable 2'L
- One switch required for each extension phone on line
- Call display and call answer compatible
- Size: 2.1"L x 1.1"W x 0.8"H

Part No.	Description	1	10	25
120168	Busy switch	$11.95	$10.95	$9.95

See Other Telephone Accessory Products on page 158

Black & White CCD Camera Board

EIA Format



- 1/3" CCD image sensor
- 510(H) x 492(V)
- Horizontal resolution: >350 lines
- Scanning system: 2:1 interlace
- Sensitivity: 0.7 lux/F2.0
- S/N ratio: 46dB
- Video output: 1Vp-p, composite video 75Ω
- Power supply: 12VDC (recommend P/N 162996, pg 68)
- Power consumption: 110mA • FOV: 92˚
- Electronic shutter: 1/125,000 sec. (linear)
- Size: 1.3"L x 1.3"W x 1.2"H

Part No.	Description	1	10
171029	Camera board	$47.95	$42.95

SONY® Black & White CCD Camera Boards

Sony Chipset



150931

- Lens: 3.6mm
- Signal to noise ratio: >48dB
- Requires 12V power source (not included)
- 7" (P/N 150949)/ 6" (P/N 150931) wires with 4-pin Molex-type keyed connector to board; stripped and tinned on one end
- One-year warranty

150949: • EIA system 510(H) x 492(V)
- 1/3" Sony CCD image sensor
- 400 TV line resolution
- Auto shutter speed: 1/60 - 1/100,00 • FOV: 92˚
- Size: 1.7"L x 1.7"W x 1.1"H • 0.1 lux/F2.0

150931: • EIA system 537(H) x 505(V)
- Composite output with 420 line resolution
- Shutter speed: 1/60 - 1/1000 • FOV: 92.6˚
- Video output: 1.0Vpp composite video/75Ω
- Size: 1.3"L x 1.3"W x 1.0"H

Part No.	Description	1	10	25
150949	Board w/ audio	$89.95	$80.95	$72.95
150931	Camera board	79.95	71.95	64.95
174705	2.5mm lens 130˚	16.95	16.05	14.45
159062	6mm lens 56˚	17.59	15.79	14.22
159071	8mm lens 38.6˚	19.95	17.95	15.95

SONY® Color PC Board CCD Camera

Sony Chipset



- 380 line resolution
- NTSC format 510(H) x 492(V)
- Signal to noise ratio: >48dB
- Sensor: Sony 1/3" interline transfer CCD
- Auto electric shutter: 1 to 1/100,000 sec. linear
- Lens: 3.6mm/F2.0
- Focus range: 10mm to infinity
- Automatic gain control • Automatic white balance
- Video output: 1Vp-p, 75Ω (mating connector BNC type: P/N 135618, pg 58)
- Two 9" wires w/ 2-pin Molex type keyed connector to board; stripped and tinned on one end
- 3" wire harness w/ 15-pin Molex type keyed connector to board
- Size: mother card: 2.3"L x 1.7"W; analysis card: 2.0"L x 1.7"W; sensor card: 1.7"L x 1.1"W x 1.0"H
- Lens: 3.6mm • FOV: 92.6˚

Requires: Center positive 12VDC @ 150mA power supply (recommend P/N 149340, pg 68) and mating connector (recommend P/N 28767, pg 85)

Part No.	Description	1	10
139571	Color camera board	$199.95	$179.95

Color CMOS Camera Board

NTSC Format



- 1/3" CCD image sensor
- 330 TV lines
- 5.0 lux • FOV: 92˚
- 3.6mm lens/F2.0
- Low power consumption
- Automatic exposure, gain and white balance
- Size: 1.0"L x 0.9"W x 1.1"H

Part No.	Description	1	10
171011	Camera board	$59.95	$53.95

Mini Enclosed Color NTSC Camera Board with Lens



- 1/4" CCD image sensor
- NTSC system with 512(H) x 492(V)
- 330 horizontal TV lines
- 2 Lux/F2.0 • FOV: 106˚
- Electronic shutter: NTSC – 1/60 to 1/96,000 sec.
- Lens: 3.6mm/F2.0 • Signal to noise ratio: 46dB
- Scanning system: 2:1 interlace
- Video output: 1V p-p composite video/75Ω
- Size (enclosure): 1.2"L x 1.2"W x 0.7"D
- Weight: 0.9 lbs. • One-year warranty

Requires: 9VDC @ 500 mA power supply (recommend P/N 100853, pg 68)

Includes: Mounting hardware and cable

Part No.	Description	1	10
168575	Mini enclosed camera	$139.95	$129.95

SONY® Enclosed Color Camera

Sony Chipset



- 1/3" Sony super HAD CCD image sensor
- NTSC system with 510(H) x 492(V)
- 380 horizontal TV lines
- 0.2 LUX/F2.0 • FOV: 92.6˚
- Signal to noise ratio: >48dB
- Auto electronic shutter speed: 1/60 to 1/100,000 sec.
- Video output: 1V p-p composite video/75Ω
- Size: 1.9"L x 1.9"W x 1.0"H • Lens: 3.6mm
- One-year warranty

Requires: 12V @ 220mA center positive power supply (not included, P/N 162996, pg 68)

Includes: Mounting hardware

Part No.	Description	1	10
153867	Enclosed color camera ..	$199.95	$179.95

Color CCD Interline Camera

Water Resistant w/ Adjustable Mounting Bracket



- EIA format
- 1/3" CMOS image sensor
- EIA format: 512(H) x 492(V)
- 330 horizontal line resolution
- 2:1 scanning interlace system
- Mini illumination: 5 lux
- Video output: 1V p-p; 75Ω • 6mm lens/F2.0
- S/N ratio: 40dB • FOV: 530
- Electronic shutter: 1/60 – 1/1,200 sec.
- Connectors: 1 standard RCA female jack for video, and in-line 2.1mm power-plug connector for power supply
- Size: 2.6"L x 0.9"Dia.

Requires: 12VDC @ 40mA center positive power supply (recommend P/N 162996, pg 68)

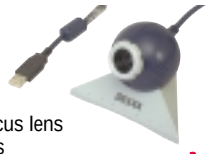
Includes: Adjustable mounting bracket and instruction sheet

Part No.	Description	1	10
185017	Color camera	$99.95	$89.95

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

DEXXA USB WEBCAM w/ Motion Detection Software

- Create video images and send via email
- Capture still photos using motion detection software
- USB-A male interface
- Compatible with Windows® 98/ME/2000
- CMOS sensor • Manual focus lens
- Image size: 352 x 288 pixels
- Frame rate: up to 30 frames per second
- Size: 2.3" diameter • Weight: 1.0 lb.



NEW

System requirements: IBM PC with Pentium® 233MHz or higher compatible, Windows 98/ME/2000, CD-ROM, available USB port

Includes: Mounting base, installation guide, CD-ROM drivers and software

Part No.	Description	1	10
191775	USB WEBCAM	$39.95	$35.95

Color and B&W CCD Cameras with 8mm Lens

- 1/3" Panasonic CCD image sensor
- Image size: 4.82mm (H) x 3.64mm (V)
- More than 380TV lines horizontal resolution
- 15.734kHz synchronous frequency
- Scanning system: 2:1 interlace
- S/N ratio: more than 46dB • FOV: 42.6˚
- BNC connector for video • Video output: 1Vp-p; 75Ω
- Size: 4.0"L x 2.2"W x 2.0"H • Weight: 0.9 lbs.



171248

171256: B&W • 0.3 lux
- 512(H) x 492(V) EIA signal format
- Auto iris: DC driver / AES / video driver switchable

171248: Color • 1.0 lux / F1.4
- 512(H) x 492(V) NTSC signal format
- Auto iris: DC driver / video driver switchable

Requires: 12VDC @ 140mA power supply (recommend P/N 162996, pg 68)

Part No.	Description	1	10
171256	B&W CCD camera	$109.95	$99.95
171248	Color CCD camera	199.95	189.95

Mini Dome Color Camera

NTSC Format

- 1/4" CCD image sensor
- 512(H) x 492(V)
- 330 horizontal line res.
- 15.73kHz horizontal synch. frequency • S/N ratio: 46dB
- Scanning system: 2:1 interlace
- Up to 1/96,000 second electronic shutter
- 3.6mm lens with F2.0 • Video output: 1Vp-p, 75Ω
- Power supply: 12VDC @ 160mA (recommend P/N 162996, pg 68)
- 2 lux/F2.0 • FOV: 92˚ • Size: 3.5"Dia. x 2.3"H



Includes: Mounting hardware

Part No.	Description	1	10
171037	Mini-dome camera	$149.95	$134.95

Metal Housing Camera Enclosures

- Plate glass: 3mm thick

170931: without heater
- Clear window area: 2.5"W x 2.3"H • Indoor use
- Max. camera size: 4.0"L x 2.4"W x 2.4"H
- Size: 16.0"L x 4.9"W x 4.9"H • Weight: 2.8 lbs.



170940

170940: with heater
- Clear window area: 3.5"W x 3.1"H • Outdoor use
- Max. camera size: 6.5"L x 3.2"W x 3.2"H
- Size: 11.0"L x 3.6"W x 3.6"H • Weight: 6.8 lbs.

Part No.	Description	1	10
170931	Camera housing	$29.95	$26.95
170940	Camera housing w/ heater	64.95	59.95

QuickCam VC

QuickCam lets you send video images and photos over the internet as easily as you now send text.



- Focus range: 1" to infinity
- 3.6mm lens with F2.0
- 46˚ field of view
- 24-bit color
- Sensor resolution 352 x 288 pixels
- Supports BMP, TIFF, JPEG file formats
- TWAIN compliant to acquire and edit still images
- Captures 30fps (frames per second), audio and video capturing supported
- Supports AVI, RM file formats
- Parallel port interface (DB25 male connector)
- Size: (camera) 2.3" diameter • Weight: 1.0 lb.

NEW

System requirements: Pentium® 100MHz processor, 16MB of RAM, 10MB hard disk space for applications, CD-ROM, Sound Blaster compatible sound card, Windows® 95/98

Includes: Manual, 5-pin DIN to PS/2 adapter and CD-ROM drivers

Part No.	Description	1	10
191759	QuickCam	$39.95	$35.95

Pan/Tilt Controller Box

With Zoom Lens Control

- Input voltage: 115VAC
- Single joy pad and auto pan control for manual and auto pan operations



- Iris, focus, and zoom paddle switches for manual and auto pan operations
- Use with pan/tilt mechanism, P/N 179899, below
- Lens connectors: screw down terminals
- Pan/tilt connectors: 8P mike connector
- Power consumption: 8.5 watts
- Size: 8.6"W x 7.9"D x 1.6"H • Weight: 4.0 lbs.

Part No.	Description	1	10
179881	Pan/tilt controller box	$114.95	$99.95

Indoor Pan/Tilt Mechanism

Continuous Pan

- Auto mode for continuous pan
- Angular travel pan: 355˚
- Angular travel tilt: ±60˚ (up/down)
- Externally adjustable limited switch
- Pan speed: 6˚/sec.
- Tilt speed: 3˚/sec.
- Input voltage: 115VAC
- Maximum load: 11 lbs. • Weight: 4.6 lbs.
- Use with controller box, P/N 179881, above
- Size: (overall) 7.5"H x 6.2"W x 5.4"D

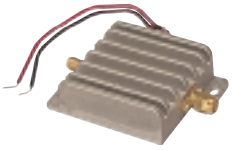


Part No.	Description	1	10
179899	Pan/tilt mechanism	$249.95	$224.95

2.4GHz Wireless Antenna Booster

Extend Video Transmitting Distance

- Output power: 1 watt
- Audio / Video booster
- FM design
- Easy to install
- Impedance output: 50Ω typical (to antenna)
- Video output: 1Vp-p composite video; 75Ω (to camera)
- Used when increase in distance is needed
- Size: 2.0"L x 1.9"W x 0.7"H



Includes: 9VDC @ 800mA wall transformer, adapter and mounting hardware

Part No.	Description	1	10
174748	Antenna booster	$199.95	$179.95

4-Channel Matrix Switcher

NTSC Signal Format



- Inputs: 4
- Video input/output: 1Vp-p, 75Ω
- Output: 2 selectable on screen
- Video gain: from attenuation to amplifier (0.8 to 1.4 Vp-p) • Video bandwidth: 2MHz (±3dB)
- Switching interval: 1 to 30 seconds selectable on screen • By-pass, scan, home selectable on screen
- BNC connector to video & RCA connector for audio
- Size: 9.3"L x 4.7"W x 1.6"H • Weight: 2.4 lbs.

Includes: Manual, remote control and 9VDC @ 200mA center positive power supply

Part No.	Description	1	10
169228	4 channel switcher	$79.95	$69.95

Quad Digital Color Video Processor

NTSC Signal Format



- 4 with loop inputs
- Video input: 1Vp-p, 75Ω typical
- Video output quad: 2x1Vp-p, 75Ω
- Digital memory: 1024x512
- Zoom relay with 2x2 zoom definition
- Alarm inputs/outputs: 4/1 contact normally open (n.o.)/normally closed (n.c.)
- Switching interval: 0–99 seconds
- Day/time generator format: month/day/hour/min./sec.
- 8 character title display • BNC video connections
- Size: 16.9"L x 9.5"W x 1.7"H • Weight: 8.1 lbs.

SALE

Includes: Manual & 24VAC @ 750mA power supply

Part No.	Description	1	5
170974	Color video processor	$277.95	$249.75

2.4GHz High Gain Directional Antenna



- Indoor and outdoor use
- Gain: 8.5dB
- Impedance: 50Ω
- Weatherproof and corrosion resistant
- Distance: 150 – 300ft. (open area)
- Frequency range: 2300 – 2500MHz
- Cable: RG58/U with SMA male connector
- Connector: SMA male • Cable length: 0.8 ft.
- Size: 4.8"W x 4.8"H x 2.8"D • Weight: 0.7 lbs.

Includes: Mounting hardware

Part No.	Description	1	10	25
174721	2.4GHz antenna	$89.95	$79.95	$69.95

2.4GHz SMA RF Antenna

Unidirectional



- For use with 2.4GHz cameras, transmitters, and receivers
- Gain: 3dB • SMA male • Size: 3.6"L

Part No.	Description	1	10
179864	2.4GHz antenna	$12.95	$11.49

Wireless Camera Booster to Antenna Extension Cable



- For wireless camera and receiver
- Connects your booster to antenna
- SMA male to SMA female connectors • Length: 8" • RG330

Part No.	Description	1	10
179872	Wireless extension cable	$11.95	$10.95

2.4GHz Wireless B&W and Color CCD Cameras

- 1/3" CCD image sensor
- 380 TV lines
- 512(H) x 492(V)
- Auto electronic shutter
- Audio and video transmission
- S/N ratio: more than 48dB
- Impedance output: 75Ω typical
- Video input: 1Vp-p composite video (75Ω)
- Audio input: 2Vp-p maximum
- Built-in 15VDC regulator and microphone
- 4-channel jumper configurable

SALE



174764



Lens not Included

174801

174764: B&W Camera
- EIA format; 0.1 lux/F1.2; 3.6mm lens with FOV: 92˚
- Size: 3.6"L x 2.2"W x 2.1"H
- Weight: 2.0 lbs.

174801: Color Camera
- NTSC format; 2.0 lux/F1.2; LED power "ON" indicator; automatic gain control and white balance
- Lens not included (recommend P/N 174799, below)
- Size: 4.1"L x 2.2"W x 2.1"H • Weight: 2.1 lbs.

Includes: 15VDC power supply, antenna, mounting bracket and manual

Part No.	Description	1	10
174764	B&W camera	$120.95	$108.60
174801	Color camera	206.75	186.05

42.6˚ Lens for P/N 174801



- 8mm lens with FOV: 42.6˚; F1.8 (for P/N 174801, above)

Part No.	Description	1	10	25
174799	8mm lens	$64.95	$58.49	$52.49

2.4GHz Wireless B&W and Color CCD Cameras

With AES/AI Video Drive

- 1/3" CCD interline sensor
- 380 Horizontal TV lines
- 512(H) x 492(V)
- Scanning system: 2:1 interlace
- Auto electronic shutter (AES): 1 to 1/100,000 sec
- Auto iris (AI) control video drive switchable
- S/N ratio: more than 48dB
- Video output: 1Vp-p/75Ω
- Impedance output: 75Ω typical
- LED power "ON" indicator at rear panel
- Weight: 2.1 lbs.
- Size: 4.0"L x 2.2"W x 2.0"H
- Lens not included (recommend P/N 174799, above)

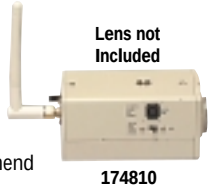
SALE

Lens not Included



174828

Lens not Included



174810

174828: B&W; EIA format; 0.1 lux/F1.2
174810: Color; NTSC format; 2.0 lux/F1.2

Includes: 15VDC power supply, antenna, mounting bracket and manual

Part No.	Description	1	10
174828	B&W camera	$159.95	$139.95
174810	Color camera	349.95	314.95

Over 700 Items Up to 60% off

SALE

See pages 4 & 5 for complete details

4-Channel 2.4GHz Wireless Audio/Video Transmitter System

EIA Format



- ISM band: 2.4–2.483GHz
- Four selectable channel transmitter and receiver
- Audio response: 20Hz–20kHz
- Antenna mode: dipole (omnidirectional)
- Video output: 1V p-p/75Ω composite video
- RCA jacks for audio/video connectors
- Weight: 3.3 lbs.

Includes: Two 12VDC @ 500mA w/ 2.1mm x 5.5mm center positive plug, and patch cables

Transmitter: • Size: 3.5"L x 2.5"W x 1.1"H
- Input voltage: 12VDC @ 500mA
- Output voltage: 12VDC @ 300mA

Receiver: • Size: 5.1"L x 4.0"W x 1.0"H
- Input voltage: 12VDC @ 500mA

Part No.	Description	1	10
169631	4-ch. wireless system	$151.95	$134.95

4-Channel 2.4GHz Wireless Audio/Video Receiver and 10mW Transmitter

Make your camera wireless up to 495 feet!



192858

- Transmission range: 495' (150M outdoors); 198' (50M indoors)
- 4-channel switch selectable on transmitter
- Output power (transmitter): 10mW
- Output impedance: 50Ω typical
- Video input: 1Vp-p composite
- Audio input: 2Vp-p max.
- RCA jacks for audio and video connectors

NEW



192866

Receiver:
- Built-in OSD time generator – date/time/channel
- Video loss detection and freeze channel
- Non-volatile memory protects system set-up from power loss
- Mute and alarm trigger port
- Size: (transmitter) 4.5"L x 3.2"W x 1.0"H • Weight: 1.7 lbs.
- Size: (receiver) 6.5"L x 5.5"W x 1.4"H • Weight: 1.8 lbs.

Includes: RCA cable, 12VDC@500mA adapter, RCA to F connector adapter (receiver unit only)

Part No.	Description	1	10
192858	4-channel transmitter	$89.95	$79.95
192866	4-channel receiver	124.95	112.95

Mounting Brackets for Enclosed Camera



171002 170982

- Material: plastic
- Base mounted w/ 3 screws
- Swivel angle: 360˚
- Tilt angle: 90˚
- For use w/ enclosed cameras (P/Ns 169607/150404/ 169404/170991, right)

171002:
- Color: ivory
- Max load: 11 lbs.

170982:
- Color: white
- Max load: 6.6 lbs.

SALE

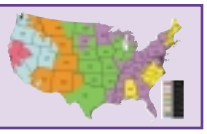


174713

174713: • Color: black • Max load: 2.2 lbs.

Part No.	Product No.	Ht. (in.)	Wt. (lbs.)	1	10
171002	15-B002L	6.4	0.3	$4.95	$4.49
170982	15-B004	2.0	0.2	6.95	6.25
174713	15-B008	5.4	0.1	4.49	4.05

Same business day shipping until 6:00 p.m. EST. See page 182 for Zone Chart



Black and White Lighted Infrared Camera

EIA Format

2.4GHz

- Adjustable camera lens
- 6 infrared LEDs for night vision
- Scanning system: 2:1 interlace
- Horizontal sync. freq.: 15.734kHz
- 380 TV line resolution • FOV: 92˚
- Video output: 1V p-p; 75Ω
- 0.1 lux with F2.0 • Lens: 3.6mm



169607

Includes: 12VDC @ 500mA power supply and wall mounting bracket

169607:
- 2.4GHz
- 4-channels jumper configurable
- Audio output: 2V p-p max.
- Size: 2.8"L x 2.1"W x 2.1"H
- Weight: 1.3 lbs.

150404:
- Auto iris controlled
- Built-in voltage regulator
- Matching connectors: RG59 BNC (P/N 71271, pg 58)
- Operating voltage: 12–15VDC
- Size: 2.9"L x 2.0"W x 2.0"H • Weight: 1.2 lbs.



150404

Part No.	Description	1	10
169607	2.4GHz infrared camera	$169.95	$159.95
150404	Infrared lighted camera	134.95	129.95

Enclosed CCD Color Camera with Audio Microphone

NTSC Format



- Pick-up device: 1/4" CCD image sensor • FOV: 92˚
- Picture elements: 512(H) x 492(V) lines
- Horizontal resolution: 330 lines
- Minimum illumination: 2 lux
- Horizontal sync. frequency: 15.734kHz
- Vertical frequency: 60Hz • Lens: 3.8mm/F2.0
- Scanning system: 2:1 interlace
- Video output: 1V p-p, 75Ω
- Audio output: 2V p-p max.
- Size: 2.9"L x 2.1"W x 2.0"H • Weight: 0.3 lbs.

Requires: 12V regulated power supply (recommend P/N **162996**, pg 68)

Part No.	Description	1	10
169404	Encl. camera w/ audio	$139.95	$129.95

4-Channel 2.4GHz Wireless Color Camera

NTSC Format

SALE



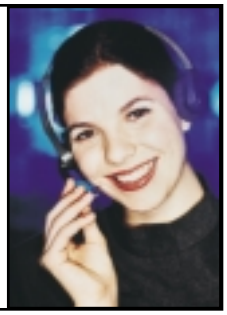
- Output impedance: 50Ω typical
- Video input: 1Vp-p composite video; BNC connector
- Audio input: 2Vp-p maximum
- 4 channel jumper selectable at the back of unit
- Output power: 10mW
- 1/4" DSP color CCD sensor
- 2 lux illumination
- Function chip on board
- Built-in 3.8mm board lens
- 330 TV lines • FOV: 92˚
- Size: 2.9"L x 2.2"W x 2.0"H • Weight: 1.6 lbs.

Includes: Mounting bracket, manual and 12VDC @ 500mA center positive AC adapter

Part No.	Description	Price
170991	2.4GHz color camera	$195.95

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

We Match Any Advertised Price



10" Black and White Security Monitor with Audio

NEW



- EIA format
- 9" viewable screen
- Resolution: 700 line resolution
- LED indicator for power
- Push down front panel for vertical hold and size, brightness, volume, and contrast adjustments, power on/off switch
- Horizontal frequency, focus and sub-brightness adjustment, impedance input switch, 1 BNC female & 1 RCA jack for audio/video input/output
- Input voltage: 120VAC @ 60Hz (2-prong 5' cable)
- Size: 9.3"W x 12"D x 9.1"H • Weight: 15 lbs.

Includes: Manual

Part No.	Description	1	10
192719	10" black & white monitor	$119.95	$107.95

Black & White CCD Camera with 6" Monitor



170616

Camera: EIA Format

- 512(H) x 492(V)
- 1/3" CCD image sensor
- 380 TV line resolution
- 6 IR LED light for view in the dark application
- 15.734kHz horizontal synch. frequency
- S/N ratio: 48dB
- 2:1 interlace scanning system
- 1/100,000 second electronic shutter
- 3.6mm lens with F2.0
- Audio output: 2Vp-p, 50Ω maximum • 0 lux at 2M
- BNC connector for video & RCA connector for audio
- Power supply: 12-15V @ 130mA • FOV: 92˚
- Video output: 1Vp-p, 75Ω
- Size: 2.2"W x 2.8"D x 2.1"H

Includes: Camera bracket

Monitor: EIA Format

- 6" 2-channel flat screen monochrome monitor
- Vertical hold, brightness and contrast adjustment knobs at rear of monitor
- Size: 6.7"W x 7.2"D x 5.2"H

Includes: 20M audio/video cable, manual and 15V @ 1A center positive power supply

Part No.	Description	Wt. (lbs.)	1	10
170616	Camera w/ monitor	7.7	$159.95	$143.95

Mini Alarm Siren



- Sound pressure: 108dB
- Output frequency: 3000Hz
- Rated: 2-12VDC @ 300mA
- Adjustable mounting plate
- 16" color coded connector wires, tinned
- Size: 2.8"Dia. x 2.5"L

Part No.	Description	1	10	50
148152	Alarm siren	$7.95	$6.95	$6.25

See page 66 for more audible devices

5" Color Monitor

NTSC Video with Audio

This color monitor has both video and audio hook-ups. Screen can be tilted for better viewing. Speakers on base unit for audio.



- 5" viewable screen
- RCA jacks for audio/video
- Recommend camera P/N 169404, pg 165
- Size: (unit) 7.5"L x 6.3"W x 2.5"H • Weight: 1.6 lbs.

Requires: 12VDC regulated power supply, not included (recommend P/N 162996, pg 68)

Part No.	Description	1	10
169412	5" color monitor	$279.95	$259.95

4" LCD Color Monitor

NTSC Format



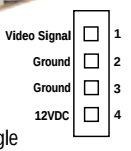
- High resolution, low power consumption
- TFT color LCD
- Backlight: cold cathode fluorescent lamp
- Power source: 12VDC @ 400mA
- Resolution 383 x 234 dpi
- 5" long lead wire w/ 4 position molex type power connector
- Tint color and brightness adjustable
- Size: 4.1"L x 3.3"W x 0.7"H (display)
- Size: 4.7"L x 3.3"W x 1.3"H (unit) • Weight: 0.7 lbs.

Part No.	Description	1	10
172742	4" color LCD monitor	$159.95	$149.95

4" LCD Color Monitor

NTSC Format





- High resolution and low power consumption
- TFT active matrix
- Input voltage: 12VDC @ 500mA
- Power consumption: <800mA
- Video input: composite video signal IV p-p; 75Ω
- Backlight: cold cathode filament tube
- Resolution: 234 x 383 dpi; RGB delta configuration • Wider view angle
- 2" long stripped and tinned wires for power and video connection • Weight: 1.1 lbs.
- Size: 4.7"L x 3.4"W x 1.5"H (unit) 4.0"L x 3.3"W x 0.7"H (display)

Includes: Manual

Part No.	Description	1	10
154747	4" LCD color monitor	$279.95	$259.95

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Join our "Live Wire" today to receive e-mail alerts on New products and Special Promotions

14" SVGA Color Monitor



- 13" diagonal view
- 0.28mm dot pitch
- HDDB15 male connector
- Power, contrast, brightness, horizontal and vertical position, recall and trapezoid knob adjustments
- Resolution: 1280 x 1024 @ 60Hz
- Input voltage: 100-240VAC @ 50/60Hz
- Size: 14.2"W x 14.6"D x 13.5"H • Weight: 25 lbs.
- Refurbished (mfr. may vary)

Requirements: IBM PC/XT or higher compatible

Includes: Power cable, tilt and swivel base

Part No.	Description	1	10
174537	14" SVGA color monitor	$69.95	$62.95

15"/17" SVGA Color Monitors



- 0.28mm dot pitch
- Resolution: 1280 x 1024 @ 60Hz
- Digital panel control
- Input voltage: 100-240VAC, 50/60Hz (auto switching)
- Power, contrast, brightness, horizontal and vertical size position, recall and trapezoid front control
- HDDB15 male connector • UL/CSA/TUV approved
- Refurbished (mfr. may vary)

153306: • 13.5" diagonal view
- Size: 14.5"W x 16.0"D x 14.6"H • Weight: 45 lbs.

181905: • 15.5" diagonal view
- Size: 16.5"W x 17.0"D x 14.5"H • Weight: 47 lbs.

Requirements: IBM PC/XT or higher compatibles

Includes: Power cable, tilt and swivel base

Part No.	Description	1	10
153306	15" SVGA color monitor	$99.95	$89.95
181905	17" SVGA color monitor	149.95	134.95

GME Computer Monitor Tester

Portable tester helps you troubleshoot, test, and align computer monitors quickly!



- Test MDA, CGA, EGA, VGA and Super VGA resolution monitors
- Checks color bars, color raster (white, red, green, blue), dots, crosshatch and windows
- Both digital/TTL DB9F and analog HDDB15F
- Power with either a 9V battery or an external AC adapter (recommend P/N 151095, pg 83 or P/N 100845, pg 68) • One-year warranty
- Size: 5.6"L x 3.7"W x 1.8"H • Weight: 0.6 lbs.

Part No.	Description	1	10
137761	Computer monitor tester	$129.95	$119.95

GME Computer Monitor & NTSC Tester (Mac, PC and TV)



- Tests VGA, Super VGA, Mac monitors and TVs
- Checks full-field color bars, color raster, dots (static and dynamic convergence), cross-hatch and windows (power supply regulation, checks for a clear distinction between white and black portions)
- Two video connectors for TV, composite and S-video
- Connectors: HDDB15F, DA15F
- Power with either a 9V battery or an external DC adapter (recommend P/N 151095, pg 83 or P/N 100845, pg 68)
- Size: 5.5"L x 3.0"W x 1.4"H
- Weight: 0.7 lbs. • One-year warranty

Part No.	Description	1	5
149729	Computer monitor tester	$179.95	$159.95

OWI® Robotic Arm Trainer Kit *109-piece kit*

Five Axis of Motion

Teaches the basic robotic sensing and locomotion principles while testing your motor skills as you build and control the arm. This unit can be commanded or instructed through its five-switch wired controller with lights to grab, release, lift, lower, rotate wrist, and pivot sideways. Five motors and joints allow flexibility.







- Advanced level kit
- Max. height upwards: 20.1"
- Shoulder movement @ 120˚
- Wrist rotation clockwise or counter clockwise @ 340˚
- Grip opens to 2" wide
- Rotates left to right at the base @ 350˚
- Max. length outwards: 14.2"
- Max. lifting capacity: 4.6 oz.
- Elbow moving range @ 135˚
- Weight: 4.5 lbs.

Build It Yourself!

Requires: 4 D batteries (not included)

Part No.	Description	1	10
157366	Robotic arm kit	$69.95	$62.95
159345	Robotic controller software	79.95	69.95

Digital Voice Module by MingMicro



- Plays 16 messages
- 1M DRAM on board
- Selectable 16k/32k/44k bps sampling rate
- 0.5W audio amp on board with volume control
- All components soldered on board
- Power requirements: 6-12VDC, 200mA (P/N 100095, pg 68)

Part No.	Product No.	1	10	25
124871	DVM58D	$69.95	$62.95	$54.95

Video Text Display Module

NTSC composite (1Vp-p, 75Ω)



- Serial data input: 2400-19.2kbps
- 30-pin SIMM form factor (socket supplied)
- Compatible w/ Parallax Basic Stamp®
- Auto-switching genlock overlay or internal video generation
- Power supply: +8-16VDC @ 65mA input, 5VDC aux. output (regulated)
- Displays up to 308 characters (11 lines of 28)
- 12 x 18 pixel character pattern • Size: 3.5"L x 1.1"H
- Asynchronous serial input only @ 9600bps

Part No.	Product No.	1	10	25
162051	BOBII	$79.95	$71.95	$63.95

MONDO•TRONICS

Electric Pistons™ (Deluxe 5-Pack)



The Electric Piston is a shape memory alloy actuator that pulls with up to one pound of force and contracts by 20mm. Typical activation requires just one volt at five amps for two seconds. Plus, mount several pistons in parallel for more strength, and in series for longer strokes.



- 1 volt @ 5 amps

Includes: Five pistons, battery, leads and plans for four complete projects

Part No.	Description	1	10
141903	Electric piston pack	$39.95	$34.95

MONDO•TRONICS

Muscle Wires® Book & Deluxe Kit

- Kit includes one each Flexinol 100, 150 and 250 Muscle Wires® (below) and Project Book
- 3 meters of wire

Includes: Crimps and instructions

Part No.	Description	1	10
141348	Muscle Wires® kit	$59.95	$53.95

Electronic Design Templates

These design templates are used to create simple schematic diagrams. The templates consist of electronic/electrical symbols such as resistors, capacitors (axial, radial, disc types), diodes, semiconductors in different packaging types, & center spacings.


136637


136629

136637: #9901 template "A" • 1:1 scale
136629: #9903 template "B" • 2:1 scale

Includes: Symbols, components and center spacing layouts

Part No.	Description	1	10	25
136637	#9901 template "A"	$5.95	$5.35	$4.79
136629	#9903 template "B"	5.49	4.95	4.49

Find our selection of books for robotic applications on page 178



MONDO•TRONICS

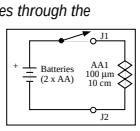
Muscle Wires®

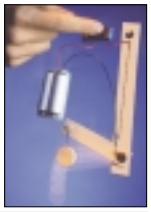
These unique nickel-titanium alloy Muscle Wires® actually shorten in length when electrically powered, and can lift thousands of times their own weight.



* *Multiply by 0.0098 to get force in Newtons*
** *Cycles per minute, in still air, at 20˚ Centigrade*

How it works… *Pressing the switch lets power flow from the batteries through the Muscle Wire®, heating it and causing it to contract and raise the lever and lift the weight. When power is removed, the Muscle Wire® cools and relaxes, and the weight helps it return to its starting position.*





Part No.	Description	Wire Diameter (microns)	Linear Resistance (ohm/m)	Typical Current (mA)	Deform Weight* (grams)	Recovery Weight* (grams)	Typical Rate**	Length (meters)	Pricing 1	Pricing 10
141321	Flexinol 100LT	100	150	180	28	150	33	1	$9.95	$8.95
141874	Flexinol 150LT	150	50	400	62	330	20	1	9.95	8.95
160055	Flexinol 375LT	375	8	2750	393	2000	4	1	14.95	13.45

SOLUTIONS CUBED RAM Pack B Module

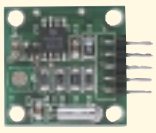
SALE



Allows addressable access to 8kBx8 bits of RAM. An autobaud detect function supports communication at 1200-19,200 baud rates. A software command allows the module to be expanded to handle 32kBx8 RAM. The additional FIFO (first-in-first-out) buffer mode allows sequential storage of data in RAM without the need to address the RAM. RAM comes socketed for easy replacement with NVRAM or 32kBx8 RAM.

Part No.	Description	1	10
143811	6-pin RAM Pack B module	$26.65	$23.95

Pocket Watch B Module



Contains a real time clock, calendar and advanced timing features. The module keeps track of seconds, minutes, hours, days, months, and years.

- For use with P/N 130892 - BS2-IC, pg 168 • Easy-to-use 1 or 2 wire interface
- Leap year compensation • Easy-to-use SIP package
- Four types of user configurable alarms
- Externally accessible, precision timebase
- Standard TTL • One-year warranty

Part No.	Description	1	10
145630	Pocket watch B module	$24.95	$22.49

MEMKey 4 x 5 Matrix Keypad Encoder Module



- PC/AT or serial output
- Standard TTL levels
- Programmable rows & columns, key values, debounce and typematic times
- Automatic or polled key reporting
- Easy-to-use SIP package
- For use with P/N 130892 BS2-IC, pg 168
- Compatible with keypad P/N 160071, pg 35

Includes: 64 bytes of user accessible EEPROM

Part No.	Description	1	10
163758	Keypad encoder module	$34.95	$31.95

Motor Mind B Module



Motor control supports one or two line serial communication stream. DC motors w/ operating voltages as great as 30VDC and continuous currents of 2A can be controlled. An on board frequency counter has a range of 0–65,528Hz. Motor speed (254 steps) & direction can be controlled. Motors with tachometers or encoders may make use of the automated speed control function.

Part No.	Description	1	10
143802	9-pin motor mind B module	$29.95	$26.95

Precision Navigation, Inc. Vector 2X Compass Module



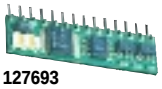
- 2˚ accuracy, 1˚ resolution
- 5Hz sampling rate
- Hard iron calibration
- 3-wire serial output format (compatible with Motorola SPI and National Microwire)
- Pin selectable BCD or binary output format
- Raw uncalibrated magnetometer output optional
- Master or slave capability for data clock generation

Requires: Power supply 5V @ 10mA (recommend P/N 112070, pg 67)

Part No.	Description	1	10	25
126703	Vector 2X module	$49.95	$44.95	$39.95

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

BASIC Stamps


127693


130892


140071

BASIC Stamps are small computers using a variation of BASIC called PBASIC to control execution of many applications. The BS1-IC has 8 I/O lines, while the BS2-IC has 16 I/O lines which can be connected directly to buttons, LEDs, registers, and many other TTL level devices. Each allows you to store data in the EEPROM before downloading a BASIC program.

Includes: Embedded BASIC plus instruction sets; BASIC interpreter, EEPROM (non-volatile), a resonator and 5V regulator

See page 34 for Serial LCD Modules

Specifications:	BS1-IC	BS2-IC
EEPROM	256 bytes	2048 bytes
RAM	14 bytes	26 bytes
Max. prog. length	80 instructions	500 instructions
Clock speed	4MHz	20MHz
Program speed	2000/sec.	4000/sec.
Max I/O speed	2400 baud	50k byte
Package	14-pin SIP	24-pin DIP
PC Interface	Parallel	Serial
Size	1.4"L x 0.4"W	1.2"L x 0.6"W

140062:
BASIC Stamp®1 Starter Kit w/ BS1-IC (27205)
Design your project today using the BASIC Stamp 1. Includes a BS1-IC, super carrier board, manual, software and programming cable.

140071:
BASIC Stamp®2 Starter Kit w/ BS2-IC (27203)
Take advantage of all the cool features of the BASIC Stamp 2. Includes the BS2-IC, super carrier board, manual, software and programming cable.

Part No.	Parallax No.	Wt. (lbs.)	1	10
127693	BS1-IC	0.01	$34.95	$31.49
130892	BS2-IC	0.01	49.95	44.95
140062	27205 Kit	2.2	95.49	85.95
140071	27203 Kit	1.9	149.95	134.95

DINAN Minipower DC-to-DC Converters

NEW


194909

- Output ripple (avg.): <35mV, except P/N 194933 <5mV and P/N 194925 35mV

194909/194917/194925/194933: recommend using AA size batteries (P/N 151087, pg 83)

194909: • Max. output (typical): 5VDC @ 72mA • Output ripple (avg): <35mV
194917: • Max. output (typical): 5VDC @ 190mA • Output ripple (avg): <35mV
194925: • Max. output (typical): 5VDC @ 110mA; 3.3VDC @ 130mA • Output ripple (avg): 35mV
194933: • Max. output (typical): 5VDC @ 80mA • Output ripple (avg): <35mV
194941: • Max. output (typical): 5VDC @ 3000mA • Output ripple (avg): <35mV

Part No.	Product No.	Voltage Range	1	10
194909	MP-20	2 – 3.6VDC	$14.99	$13.49
194917	MP-40	1.2 – 5VDC	29.99	26.99
194925	MP-55	0.9 – 5VDC	34.99	31.49
194933	MP-55S	0.9 – 5VDC	31.99	28.99
194941	MP-300P	1.8 – 10.5VDC	34.99	31.49

For additonal converters see page 80

Stamp Activity Board



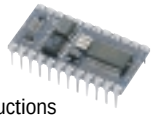
The BASIC Stamp activity board is a demonstration board for Parallax BASIC Stamp computers (BS1-IC and BS2-IC modules). Sample source code is included.

- Four push buttons let you simulate inputs
- Four LED's indicate the status of the outputs
- 32Ω speaker outputs frequencies: 500Hz to 8kHz
- Potentiometer gives you analog output
- A/B sockets support many 8-pin DIP ICs including: EEPROMs, ADCs, digital thermometers, etc.
- X-10 interface via RJ11 connection
- Supports BS1-IC and BS2-IC • One-year warranty
- PCB size: 4.0"L x 2.8"W • Weight: 0.7 lbs.

Includes: Manual, power supply, and sample source code diskette

Part No.	Parallax No.	1	10
149032	27905	$84.95	$76.95

50MHz BASIC Stamp IISX Module



Parallax used the new Scenix Semiconductor SX microcontroller to add power to their popular BS2-IC module.

- Execution of 10,000 PBASIC instructions per second (2.5X the speed of the BS2-IC)
- 2 x 8k bytes of EEPROM (16k bytes total) to handle a total of 4,000 lines of code
- The BS2SX-IC is pin-compatible with the BS2-IC and executes a superset of instructions
- Size: 1.2"L x 0.6"W

Part No.	Parallax No.	1	10	50
159775	BS2SX-IC	$59.95	$56.95	$49.95

Stamp Module Carrier Boards


164726

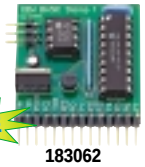
Optional boards for BS1-IC, BS2-IC and BS2SX-IC Stamps.

- Easy use of Stamp with prototyping area, 9-volt battery clips, I/O header, reset button, and programming connector

130921: Use w/ P/N 130892, left • 3.0"L x 2.6"W
164726: Use w/ P/N 127693, 130892, left and P/N 159775, above • 4.0"L x 3.0"W

Part No.	Parallax No.	1	10
130921	27120	$19.95	$18.95
164726	27130	49.95	44.95

Basic Stamp OEM Kits


183062


183071

The OEM BASIC Stamp is a through-hole version of the popular BASIC Stamp modules.

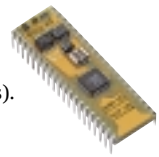
- 20-pin SIP, standard 0.1" spacing
- PC board includes labeled component locations with visible traces between parts
- PBASIC interpreter and EEPROM are socketed to allow for replacement
- Programmed using our PBASIC DOS or Windows® editor just like the BASIC Stamp modules

Includes: PBASIC interpreter, EEPROM, resonator, DB-9, and all the resistors and transistors needed to build a BASIC Stamp I or II

Part No.	Parallax No.		Price
183062	27296	BS1 OEM kit	$34.55
183071	27291	BS2 OEM kit	44.95

BASIC Stamp 2P Modules


184911


184920

The BASIC Stamp 2 SX Plus (BS2P-IC) has several advantages over all previous BASIC Stamps. Commands for interfacing with parallel LCDs, I²C devices and Dallas Semiconductor One Wire parts have been added along with a polled interrupt capability. Available in a pin-compatible format to other BS2 variants, or as a 40-pin module (with 16 extra I/O pins).

- Voltage: 5-12VDC
- PBASIC commands: 55
- Program execution speed: 12,000 instructions/sec.
- RAM size: 38 bytes (12 I/O, 26 variable)
- EEPROM program size: 8 x 2k bytes, 4,000 instructions
- Current draw @ 5V; 40mA run; 400µA sleep
- PC programming interface: serial port

184911: Size: 1.2"L x 0.6"W x 0.4"H
184920: Size: 2.0"L x 0.6"W x 0.4"H

Part No.	Parallax No.	1	10
184911	BS2P24-IC 24-pin	$78.95	$71.95
184920	BS2P40-IC 40-pin	98.95	89.95

Stamp Works Kit



This all-in-one kit takes you beyond theory, into a well-written collection of 32 experiments that will teach you first class BASIC Stamp programming. You'll learn to get the most out of the BASIC Stamp and to increase its versatility by connecting to popular active and passive components.

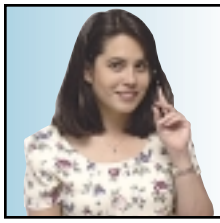
Includes: Manual, BASIC Stamp Experiment Board, BS2-IC, 2x16 parallel LCD with custom cable, digital multimeter with 2 probes, wire cutter/stripper/pliers, three 100' rolls 22 AWG wire, screwdriver kit, photoresistor, 555 timer, 8-bit serial-to-parallel and 8-bit parallel chips, Dallas Semiconductor 1620 digital thermometer and real-time clock with 32.768MHz crystal, National Semiconductor ADC0831 8-bit A/D converter, Maxim 7219 8-digit LED display driver, National Semiconductor LM358 op-amp, stepper motor, servo, power supply, resistor assortment, capacitors, serial cable, CD-ROM and plastic box for parts • Weight: 4.0 lbs.

Part No.	Parallax No.	1	10
184946	27297	$348.95	$314.95

See page 179 for Basic Stamp Reference Book or Log onto our website for detailed descriptions



www.jameco.com



SX Blitz Programmer



An easy to use assembly language development system for the Scenix Semiconductor SX series micro controllers. The SX-Blitz hardware is a tiny SX programmer that is available with a Windows® 95/98/NT4 interface and documentation on diskette. Similar to the SX-Key, the SX-Blitz is powered by the target circuit's power supply and programming takes place over the oscillator pins. This is a program only device and does not contain the debugging features of the SX-key.

Features:
- Integrated editor, assembler and programmer
- Assembles, programs & runs with one mouse click
- Auto-calibration of SXs internal RC oscillator (IRC)
- Object code loading, saving and verifying

Includes: SX Blitz, software, code and documentation on diskette, sample SX18AC/DP

Part No.	Parallax No.	1	10
162958	45170	$79.95	$71.95

50MIPS SX Microcontrollers

SX18AC/DP and SX28AC/DP

The fastest 8-bit microcontroller in the world. Runs at an amazing 50 million instructions per second.



162940

Features:
- Single cycle instruction execution
- 2048 x 12 bits E2/Flash program memory rated for 10,000 rewrite cycles
- Supports in-system debugging and programming
- Internal R4 MHz R/C oscillator

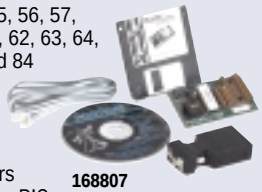
Part No.	Parallax No.	1	10
162940	SX18AC/DP (18-pin DIP pkg)	$4.95	$4.75
162931	SX28AC/DP (28-pin DIP pkg)	5.49	5.25

TechTools

PIC16C5X / XX Programmer Pack

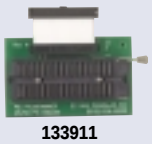
Version 5.0, Windows® Software

Programs, reads & verifies PIC16CXX devices!



168807

- Supports PICs: 54, 55, 56, 57, 58, 620, 621,622, 61, 62, 63, 64, 65, 71, 72, 73, 74 and 84
- Requires 40-pin ZIF adapter (P/N 133911 below)
- Programmer can be upgraded and adapters available depending on PIC
- Documentation on CD-ROM
- Weight: 1.8 lbs.



133911

Requires: IBM PC or compatible, serial port and Windows® operating system

Includes: PIC writer programming module, PIC writer serial protocol adapter, modular data cable, 12VAC @ 500mA power supply, PIC writer installation diskette, and Tech Tools CD-ROM

Part No.	Description	1	10
168807	PIC16CXX prog. pack	$199.95	$179.95
133911	40-pin ZIF adapter	49.95	44.95

GrowBot Kit

BASIC Stamp II – Controlled Robot



The Parallax GrowBot is a mobile robot kit based on the BS2-IC module. The kit includes parts required to install two LEDs, left and right front bumpers, two phototransistors and a pushbutton. In addition, there is a small speaker and drivetrain on board. The standard header accomodates Parallax AppModules for additional access to the BS2-ICs I/O pins.

- 50 pc. kit
- Module board not included (recommend P/N 162536, below) • Difficulty level: intermediate
- Size: 5.5"L x 3.0"W x 3.0"H • Weight: 1.5 lbs.

Includes: BS2-IC module, software & documentation

Part No.	Parallax No.	1	10
162501	29100	$219.95	$209.95

"Board of Education"



Designed to teach beginners how to interface with Basic Stamp II microcontrollers.

- Mechanically interlocked power supply prevents dual connection of wall-pack and battery
- DB9 connector for BS2-IC programming and serial communication during run-time
- BS2-IC P0 - P15 I/O pins, Vdd and Vss connections brought adjacent to 2" x 1-3/8" breadboard area
- Traces on top of the board show connections between BS2-IC and breadboard connections
- Size: 4.0"L x 3.0"W

Requires: BS2-IC module (not included – P/N 130892 & 159775, pg 168)

Includes: Set of ten color-coded pluggable 22 gauge wires

Part No.	Parallax No.	1	10
162536	28150	$54.95	$49.95

BASIC Analog and Digital Kit and Book



Designed to provide you with an overview of the concepts involved in converting analog signals into digital data that the BASIC Stamp can understand.

- Difficulty level: moderate

Requires: Module board (not included – recommend P/N 162536, above)

Includes: 4 LEDs, 33 resistors, 2 potentiometers, 2 tack switches, 4 capacitors, 2 photo-resistors, 20 jumper wires, 3 ICs and 2 piezo speakers

Part No.	Parallax No.	1	10
170122	28155	$39.95	$35.95

The Micro-Controller Application Cookbook



An instant reference to circuits as well as a variety of simple circuits and interface code that can be customized for more advanced users. For complete spec see page 179.

Part No.	Description	1	10
181681	Microcontroller Cookbook	$29.95	$26.95

What's A Microcontroller? Kit and Book





This book introduces you to a couple of simple projects, including a simulated grocery store door proximity sensor, connecting a manual potentiometer, interfacing a digital potentiometer, reading push buttons and controlling LEDs. You will also learn concepts such as how to write and download a simple program to the BASIC Stamp, build a circuit from pictorial and schematic, debug error in your hardware and software, and how to use the Boad of Education.

- Module board not included (recommend P/N 162536, left)
- Difficulty level: beginner • 32 piece kit

Part No.	Parallax No.	1	10
171264	28152	$44.95	$39.95

Robotics Kit and Book



Build a BOE-BOT by adding a chassis, servo motors, power supply, and proximity sensor to your Board of Education (P/N 162536, left). Experiments cover basic programming and servo control, sensor interfacing using an infrared LED and receiver, light following, and communication between BOE-BOTs.

- Difficulty level: moderate • 84 piece kit

Requires: BS2 starter kit (P/N 140071, pg 168)

Part No.	Parallax No.	1	10
170131	28154	$119.95	$109.95

Industrial Control Kit and Book



The Industrial Control Kit and Book teaches the user the concepts of high-voltage factory automation using a BASIC Stamp computer and simple circuitry. To display the control process virtually, the Stamp Plot Lite programming utility (downloadable from www.stampsinclass.com) graphs the analog and digital data from the BASIC Stamp. Data may be saved to a file for further analysis in a spreadsheet.

- 34 piece kit • Difficulty level: moderate
- Weight: 1.2 lbs.

Part No.	Parallax No.	1	10
176575	28156	$49.95	$44.95

SX Microprocessor Kit and Book



This kit contains all you need to program SX microprocessor.

- Difficulty level: moderate
- Weight: 2.3 lbs.
- 9 piece kit

Includes: SX-Key Rev. F, SX Tech board, SX-Key manual, 2 SX8AC/DP chips, one 50MHz resonator, 7.5VDC @ 1A power supply, serial cable, software and source code on CD-ROM

Part No.	Parallax No.	1	10
176583	45180	$179.95	$169.95

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

Crossbow

Digital Accelerometer Interface



- Measures and observes acceleration, impact, tilt, vibration, and other acceleration-related physical phenomena
- Simple digital interface for 1-axis P/N 141591 and 3-axis P/N 141575 accelerometers, below
- Plugs into any RS232 port 38.4kbaud
- 200Hz max. sampling rate
- Size: 3.0"L x 2.5"W x 1.3"H

Requires: DB9 male to female cable (recommend P/N 25700, pg 150)

Includes: User friendly graphical software and 9VDC @ 500mA power supply

Part No.	Description	1	5
141583	Digital interface card	$249.95	$224.95

Accelerometer Modules

1-Axis and 3-Axis



141575

- Dynamic range, excellent frequency response, easy to interface to a standard acquisition systems
- Shielded cable: 2'L pigtail
- Size: 1.9"L x 1.0"W x 0.8"H

Requires: 5VDC power supply (not included – recommend P/N 164101, pg 67)

Part No.	Product No.	Axis	Current	1	10
141591	CXL04M1	One	8mA	$109.95	$99.95
141575	CXL04M3	Three	24mA	249.95	219.95

Accelerometer Evaluation Board

Single Axis



Evaluation board for the ADXL105, single axis, 5g accelerometer.

Part No.	Product No.	Description	1	10
177295	ADXL105EB	Single axis	$49.95	$44.95

Accelerometer Evaluation Boards

Dual Axis



177308

Evaluation board for the ADXL202, dual axis, 2g accelerometer.

177308: features RS232 interface to connect to PC serial ports. Also includes software to display real time acceleration data.

Part No.	Product No.	Description	1	10
177287	ADXL202EB	Dual axis	$49.95	$44.95
177308	ADXL202EB-232	w/ RS232	119.95	107.95

Accelerometer-BNC Adapter Box



- Enables any Crossbow accelerometer without a regulator (the R option) to be interfaced directly to most standard data acquisition systems
- Molded plastic enclosure with three standard BNC female connectors and an on-off switch
- Compatible with oscilloscopes, chart recorders and other test equipment

Requires: 9V battery or external power

Part No.	Product No.	Description	1	10
177316	CXBNC	BNC adapter ..	$99.95	$89.95

Same business day shipping until 6:00 p.m. EST. See page 182 for Zone Chart



DATAK

Photo Etch™ Printed Circuit Kit



Generate your own 1:1 artwork. Then use the patented Fast Neg film process to make a photo negative and sensitize and expose a blank copper board. Finish by developing and etching. No camera or darkroom is required.

- Weight: 4.6 lbs. • Light source not included

***Shipped via UPS ground to continental U.S. only.**

Part No.	Prod. No.	Description	1	10
16731	12-750*	Printed circuit kit	$39.95	$36.95

Direct Etch "Starter" Set



Includes: 4 blank circuit boards, dry concentrated ferric chloride etchant, instructions, 8 sheets of direct etch donuts, DIPS, patterns lines and 1/32" & 1/16" etch resist tape.

Part No.	Prod. No.	Description	Wt. (lbs.)	1	10
70412	ER1	Starter kit	0.7	$11.95	$10.95

Single Sided Copper Clad Circuit Boards

One 5" x 6" and one 3" x 4.5" (copper clad one sided) 1/16" phenolic circuit board.

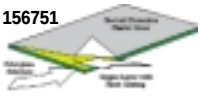
Part No.	Prod. No.	Description	1	10	25
16707	ER11	Circ. boards	$4.95	$4.49	$3.95

Dry Concentrated Etchant

- Makes one pint of etch solution

Part No.	Prod. No.	Description	1	10	25
70201	ER3	Dry etchant	$3.95	$3.49	$2.95

Pre-Sensitized Circuit Boards & Developer



156751

- Pre-coated circuit board
- Size: 3.0"L x 4.0"W x 1/16"T

Includes: Instructions

Part No.	Description	1	10	25
156751	Single sided	$4.95	$4.49	$3.95
156742	Double sided	5.95	5.35	4.79
156734*	Pos. developer (4 oz.)	6.95	5.95	4.95

Accessories



16758



16723



70261

Part No.	Prod. No.	Description	Wt. (lbs.)	1	10
16758	ER8*	Negative-acting resist developer 16 oz.	1.2	$6.95	$5.95
16723	ER18	TINNIT™ 1 pint	0.2	6.95	5.95
70261	ER71*	Negative-acting photo resist liquid 4 oz.	0.5	8.95	7.95
70480	ER181	TINNIT™, 1/2 gallon size (bulk pack)	0.6	15.95	14.49

***Shipped via UPS ground to continental U.S. only**

Acid Brush



- Used for application of reactive solvents
- Metal handle • Length: 6"

Part No.	Description	1	10	100	1000
153322	Acid brush	$.45	$.39	$.29	$.15

CEBEK

3-year manufacturer's warranty

3 Second On - 1 Minute Off Cyclic Timer Module



By triggering the timer, the contacts will be engaged for the selected on-time. Once this time has expired, the relay will remain in the off state until the off-time is completed. It then restarts, repeating the on and off process until power is disconnected.

- Output by relay • Contact rating: 5A @ 200VAC
- Size: 3.0"L x 1.7"W x 1.2"H

Requires: Power supply 12V @ 50mA (recommend P/N 100095, pg 68)

Part No.	Description	1	10	25
147846	I-10 timer	$23.95	$21.56	$19.39

1 Second - 3 Minute Timer Module



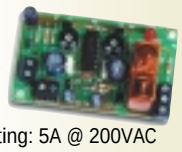
By operating a button, the relay will be activated for the selected time.

- Output contact rating: 5A @ 200VAC
- Size: 3.0"L x 1.7"W x 1.2"H

Requires: Power supply 12V @ 50mA (recommend P/N 100095, pg 68)

Part No.	Description	1	10	25
147871	I-1 timer	$19.95	$17.95	$15.95

1 Second - 3 Minute Delaying Timer Module



Timer will activate the relay after a selected waiting time. By retriggering, the relay will remain inactive during the selected delay time.

- Output with relay • Contact rating: 5A @ 200VAC
- Size: 1.7"L x 3.0"W x 1.2"H

Requires: Power supply 12V @ 50mA (recommend P/N 100095, pg 68)

Part No.	Description	1	10	25
147854	I-33 timer	$19.95	$17.95	$15.95

Barrier Photocell Circuit Module



Circuit produces an infrared beam, which when obstructed automatically connects the load. Used for alarms, object counting, steps detector,etc.

- Output relay rated: 5A @ 200VAC
- Maximum range 3 meters
- Size: 2.8"L x 2.2"W x 1.2"H

Requires: Power supply 12V @ 50mA (recommend P/N 100095, pg 68)

Includes: Emitter and receiver supports.

Part No.	Description	1	10	25
147811	RJ-1 photocell	$34.95	$31.95	$28.95

20 Watt RMS Mono Power Amplifier Module

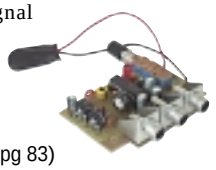


- Input signal: 250mV
- Output impedance: 4-8Ω
- Maximum current consumption: 2A
- Terminals: .100" matching disconnect solderless terminals
- Size: 2.8"L x 2.8"W x 1.6"H

Requires: Power supply: 12V @ 2A (recommend P/N 143714, pg 70)

Part No.	Description	1	10
147838	E-11 amplifier	$24.95	$22.49

FM Stereo Transmitter Mini Kit ■ *37-piece kit*



Run your own FM radio station! Plug any stereo signal into this unit and it will be transmitted to any FM radio. Tuneable from 76–108MHz. Plug in a CD player or tape deck and you have a wireless link to an FM radio within 200 feet. Clarity is approximately 40dB stereo separation.

Requires: 9VDC power supply (recommend P/N 151095, pg 83)

Part No.	Description	Dimensions	1	10
151239	FMST-100 stereo kit	2.7"L x 2.0"W	$29.95	$26.95

TV Notch Filters Mini Kit ■ *33-piece kit*



Eliminates unwanted TV channels or interference that alters sound and video. Works on cable channels 2 to 22 and 97 to 99.

Part No.	Description	Dimensions	1	10
151167	DF-222 TV filter kit	3.2"L x 0.9"W	$15.95	$14.49

Digital Thermometer Adapter Mini Kit ○ *16-piece kit*



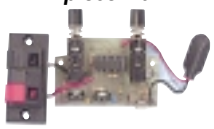
SALE

Turn your digital volt-ohmmeter into an accurate digital thermometer with 0.1 degree resolution. Measures temperature from -40˚F to 250˚F. The remote sensor is 0.25" square.

Requires: 9V battery (recommend P/N 151095, pg 83)

Part No.	Description	Dimension	1	10	100
151183	DT-3 kit	2.0"L x 1.4"W	$9.95	$8.95	$7.95

Capacitance Adapter Meter Kit ■ *27-piece kit*

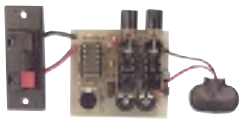


- Measures capacitance range from 2pF to 2µF
- Works with multimeter w/ 2V range reading and 10MΩ input impedance
- Size (board): 2.0"L x 1.8"W

Requires: 9V battery (recommend P/N 151095, pg 83)

Part No.	Description	1	10
158001	CA-1 capacitance adapter	$12.95	$11.49

Inductance Adapter Meter Kit ■ *22-piece kit*

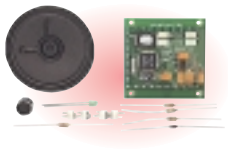


- Low inductor range: 3µH to 500µH
- High inductor range: 100µH to 5mH
- Works with multimeter w/ 2V range reading and 10MΩ input impedance
- Size (board): 2.5"L x 1.7"W

Requires: 7.5 to 15VDC power supply (recommend P/N 151095 9V battery, pg 83) or P/N 127976 (12VDC @ 300mA, pg 68)

Part No.	Description	1	10
158027	IA-1 inductance adapter	$16.95	$15.25

SENSORY Interactive Speech Recognition Kit ■



Voice Direct 364 is a speaker dependent speech recognition module, allowing training of up to 60 words or phrases in slave mode, or 15 words or phrases in stand alone. This kit maps spoken commands to system control functions. Each time one of the words is recognized, output pins on the module are toggled high for 1 second.

Includes: • Voice Direct 364 module • Quick setup guide • Microphone element • 4 microswitches • Speaker (2.25", 8Ω) • Passive component selection to configure the module

Part No.	Description	1	10
173489	Speech recognition kit	$59.95	$53.95

SENSORY VoiceDirect Speech Recognition Kit ■



SALE

VoiceDirect gives you the ability to deliver voice recognition to your product with minimal programming effort.

- Speaker-dependent speech recognition
- Minimal external components
- Program and recognize up to 15 words
- 99% recognition up to 3.2 seconds
- Size (module): 2.0" square PC board

Includes: Module, speaker, 3 push button switches, microphone cartridge and manual

Part No.	Description	1	10
162691	Speech recognition kit	$49.95	$44.95

OWI® Electronic Kits

Hyper Peppy Advanced Robot Kit △



Easy to build and assemble with basic hand tools. This peppy little guy is a fast and zippy robot who will reverse himself and resume a different course when he comes in contact with an obstacle or detects a loud sound.

- Easy to assemble mechanical drive system
- Soldering required

Part No.	Description	Dimensions	Wt. (lbs.)	1	10
145496	Advanced kit	12.0"L x 7.0"W x 3.5"H	0.9	$23.95	$21.49

Soccer Robot Beginner Kit ○



Buy two for tournament play!

Allows you to build this interactive robot with simple hand tools. Soccer robot has 6 operational kicking mechanisms. It runs forward, backward, turns left or right and executes 360 degree turns.

- Hardware for building the kit • Control box and ball

Part No.	Description	Dimensions	Wt. (lbs.)	1	10
140871	Beginner kit	12.0"L x 7.0"W x 3.5"H	1.1	$33.95	$29.95

Spider Robot Advanced Kit △



A robot that moves about avoiding obstacles by an infrared ray sensing system. The infrared ray sensing system, composed of infrared ray emitter and infrared ray receiver, finds obstacles to go around and changes its direction.

- Infrared sensor includes infrared diode/photo diode/IC
- 2 DC motors • Hardware for building the kit

Part No.	Description	Dimensions	Wt. (lbs.)	1	10
140821	Spider kit	12.0"L x 7.0"W x 3.5"H	1.2	$59.95	$53.95

Line Tracker Robot Advanced Kit △



A robot that follows a black line on white paper with the use of a photo-interrupter which projects and receives infrared rays. While black absorbs infrared rays, white reflects them.

- Infrared sensor includes infrared diode/photo diode/ transistors/IC • 2 DC motors • Hardware for building the kit

Part No.	Description	Dimensions	Wt. (lbs.)	1	10
140839	Line tracker kit	12.0"L x 7.0"W x 3.5"H	1.1	$49.95	$44.49

Rockit Robot Beginner Kit △

NEW



Explore the fundamentals of robotics with this informative and entertaining robot kit. An intelligent robot with a touch / sound sensor, if it comes in contact with an object or hears a loud noise, it automatically reverses, then turns left.

- Pre-assembled printed circuit board • 57 piece kit

Requires: 2 AA batteries (recommend P/N 151087, pg 83)

Part No.	Description	Size	Weight	1	10
192567	Rockit robot kit	4.5"L x 5.0"W x 3.5"H	0.4 lbs.	$23.95	$21.55

Triple Action Solar Car Kit ○



Use alternative power to run this car. Kit provides parts necessary to run car using solar or battery power.

- Aerodynamic sports car shell can be painted or left clear to view mechanics
- Powerful 1.4 volt/ 350mA solar cell
- Multispeed transmission • 4-wheel chasis
- Parts are removable to create other projects
- Two-way power source for solar or battery power (AA battery, not included)

Part No.	Description	Wt. (lbs.)	1	10
147774	Triple action solar car kit	0.7	$39.95	$35.95

One-Touch Selectable Gear Box Kit ■



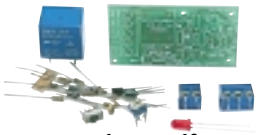
- One touch slide switch with 6 gear ratio possibilities: 6.8:1 to 807.93:1
- Assembly required
- 35 piece kit
- Dimensions: 2.5"L x 1.1"W x 1.5"H

Part No.	Description	1	10
145509	Selectable gear box kit	$14.95	$13.49

KIT ASSEMBLY DIFFICULTY LEVEL: ○ = Beginner ■ = Intermediate ▲ = Expert

Light Sensitive Relay Kit ■ 20-piece kit

Build a stable and advanced circuit that uses light to control a SPDT 10A relay.



- Dimensions: 2.4"L x 1.3"W x 1.0"H

Requires: 12VDC power supply (recommend P/N 100095, pg 68)

Part No.	Description	Wt. (lbs.)	1	10	25
136223	Light relay kit	0.1	$10.95	$9.95	$8.29

3-Channel Light Organ ■ 80-piece kit

Add a 3-channel dancing light display to your music. Each channel displays a different range of sound.



- Frequency ranges are adjustable
- Line or microphone input • Maximum load 2A per channel
- Each output has individual sensitivity control

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
131684	K8017	6.7"W x 5.6"D x 1.7"H	1.2	$59.95	$53.95

FM Transmitter ■ 26-piece kit

Mini FM transmitter (100-108MHz) ideal for family broadcasts, baby monitors and security. May be received by any portable FM radio or tuner.



- Integrated pre-amplifier (sensitivity 5mV)

Requires: 9-12VDC power supply (recommend P/N 20626, pg 175)

Part No.	Product No.	Dimensions	1	10	25
117604	K1771	1.8"L x 2.8"W	$12.95	$11.95	$10.95

1 Amp Power Supply ■ 12-piece kit

Provides a regulated voltage adjustable between 1.2 and 35 volts at 1 amp. LM317 regulator gives you remarkably better ripple and regulation characteristics than conventional regulators. Chip includes current limiter and thermal overload protection.



- Output current max.: 1.5A
- Max. dissipation: 15W (cooled)
- Max. input voltage: 40V

Requires: 25.2VCT @ 2A quick connect power transformer (recommend P/N 102103 or equivalent, pg 81)

Part No.	Product No.	Dimensions	1	10	25
117621	K1823	2.1"L x 2.1"W	$11.95	$10.95	$9.95

Sound Generator Kit ■ 61-piece kit



- Produces 10 different sounds w/ adjustable speed: guns, sirens, car engines, explosions, tunes, screeching tires, phaser guns • Push-button keyboard

Requires: 8Ω/1 watt speaker (recommend P/N 102031, pg 43); 9V battery (recommend P/N 151095, pg 83)

Part No.	Product No.	Dimensions	1	10
127562	K4401	2.8"L x 2.8"W	$29.95	$26.95

Super Mini 2.5W Audio Power Amplifier ■ 27-piece kit

This circuit has incredibly tiny dimensions. The IC has a pre-amplifier and power amplifier, which can be used separately by cutting a jumper.



- Operating frequency: 60Hz to 15kHz
- Max. output power: 2.5W (4Ω, 12V)
- Short circuit/thermal overload protection

Requires: 4.5-15VDC @ 400mA power supply (recommend P/N 114825, pg 68)

Part No.	Product No.	Dimensions	1	10	25
127175	K2637	1.7"L x 1.3"W x 1.1"H	$10.95	$9.95	$8.95

7W Mono Amplifier Kit ■ 22-piece kit



- Music output power: 7W/4Ω
- RMS output: 3.5W/4Ω & 2W/8Ω
- Harmonic distortion: 0.05% (1W/1kHz)
- Frequency response: 20 to 20kHz (-3dB)
- Short circuit/overload protection

Requires: 15VDC (8-18VDC) @ 500mA power supply (recommend P/N 155803, pg 69); speakers

Part No.	Product No.	Dimensions	1	10	25
127255	K4001	2.2"L x 1.4"W	$13.95	$12.49	$10.95

AM/FM Antenna Amplifier ■ 23-piece kit

This kit may make the difference in your reception quality where terrain and buildings cause signal deflection.



- Supply voltage: 12-15VDC @ 1-3mA
- Gain 22dB (10MHz to 150MHz)

Includes: Metal casing to store amp

Part No.	Product No.	Dimensions	1	10
129146	K2622	3.4"L x 1.4"W x 1.0"H	$13.95	$12.95

Universal Mono Pre-Amplifier ■ 17-piece kit

For audio applications where there is insufficient input signal.



- Output impedance: 1kΩ • Max. input signal: 40mV
- Frequency range: 20Hz - 20kHz +/-3dB
- Adjustable output level: 40dB max.

Requires: 10/30VDC @ 10mA power supply (recommend P/N 20626, pg 175)

Part No.	Product No.	Dimensions	1	10	25
117612	K1803	1.2"L x 1.8"W	$8.95	$7.95	$7.25

Stereo 30 Watt Power Amplifier ■ 38-piece kit

General purpose stereo amp for audio applications.



- RMS output: dual 15W @ 4Ω or dual 10W @ 8Ω
- Frequency bandwidth: 7Hz to 60kHz (-3dB)
- Separation: 70dB
- Supply voltage: 24VCT @ 2A (recommend P/N 101864, pg 82)

Part No.	Product No.	Dimensions	1	10	25
129138	K4003	2.8"L x 2.0"W	$29.95	$26.95	$24.49

Pink Noise Generator ■ 34-piece kit

Use this generator to analyze the acoustic properties of a room.

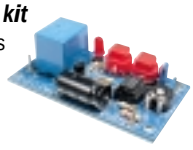


- 33-bit shift register • Pink noise filter: -3dB per octave
- Clock frequency from 30kHz and 100kHz
- Output voltage: 150mV RMS @ 40kHz
- Can be used with P/N 129171, below

Requires: 9-12VAC or 12-15VDC @ 5mA transformer (recommend P/N 100061, pg 67 or 129314, pg 69)

Part No.	Product No.	Dimensions	1	10
131705	K4301	2.8"L x 1.6"W	$15.49	$13.95

Universal Start & Stop Timer ■ 18-piece kit



- Timer for applications requiring a delay of up to 60 minutes
- Time interval adjustable between 0-15 minutes, without board modifications

Requires: 12VDC @ 55mA transformer (recommend P/N 100095, pg 68)

Part No.	Product No.	Dimensions	1	10	25
120619	K2579	1.5"L x 2.7"W	$14.95	$13.49	$11.95

DC Controlled Dimmer ▲ 37-piece kit

This circuit is ideal for replacing an existing dimmer switch; can be used in a control application via P/N 128928 interface board, pg 173.



- Supply voltage: 110V or 220-240V, 50 or 60Hz
- Can be used for 24VAC • DC control voltage: 0-10VDC
- Maximum control current: 2.25mA @ 12V

Part No.	Product No.	Dimensions	1	10	25
128901	K8003	3.0"L x 2.0"W x 1.8"H	$21.95	$19.95	$17.95

Universal Battery Charger/Discharger ■ 85-piece kit



- Charges current from 15mA to 750mA selectable
- Charges both Ni-MH and Ni-Cad batteries
- Usable battery voltage: 1.2/2.8/3.6/4.8/6.0/7.2/8.4/9.6 volts
- Quick charge in 52 min. • Normal charge in 14 hrs.
- Automatic discharge and charge cycle

Requires: 15VDC @ 800mA transformer (P/N 163782, pg 69)

Part No.	Product No.	Dimensions	1	10
147598	K7300	3.13"Sq	$23.95	$19.95

Modulated Infrared Reflective Detector



- Detects objects up to several inches away
- Modulated signal reduces response to ambient infrared noise
- Operating voltage: 5VDC • Size: 0.9"L x 0.8"W x 0.4"T

Part No.	Description	1	5
163221	Modulated detector	$23.95	$21.55

Computer Interface Board ▲ *301-piece kit*

Connects to the printer port of a computer without interruption of the printer. Works well in control applications such as the DC dimmer (P/N 128901, pg 172) and infrared transit/receiver (P/Ns 120555 and 120547, pg 174).

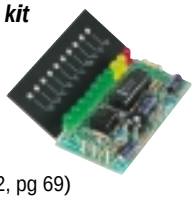


- 16 I/Os with opto coupler
- Analog outputs: eight 6-bit (64 steps), one 8-bit (256 steps)
- Analog inputs: four 8-bit (256 steps) • Full opto-isolation with computer
- 3.5" driver disk w/ routines in C++, QBASIC, Turbo Pascal

Requires: DB25 cable (P/N 65787, pg 150)

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
128928	K8000	9.3"L x 5.3"W	1.7	**$129.95**	**$116.95**

10 LED Mono VU Meter Kit ■ *36-piece kit*



- Instant visualization of audio signal levels
- Easy hook up to a LINE level (LOW input) signal source
- Special input (HIGH input) is provided, which allows direct connection to a speaker output
- Frequency range: 20Hz to 30kHz
- Dot or bar display mode selectable

Requires: 15VDC @ 300mA max. power supply (P/N 189982, pg 69)

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
147643	K4304	2.7"L x 1.4"H	0.3	**$19.95**	**$17.95**

Flashing LED Sweetheart ■ *46-piece kit*

This kit shows a beating heart. Great for decorations!



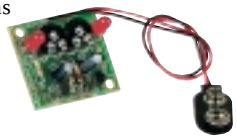
- Power consumption: 8mA

Requires: 8 to 15VDC wall transformer (P/N 100095, pg 68) or 9VDC battery (P/N 151095, pg 83)

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10	25
147555	MK101	2.5"L x 2.4"W x 1.2"H	0.1	**$11.95**	**$10.95**	**$9.95**

Flashing LED Kit ■ *23-piece kit*

Activates 2 flashing LEDs for applications such as model constructions. Adjustable flashing speed by potentiometers.



- 5.5" wire w/ 9V battery connector
- Minimum consumption: 4mA

Requires: 9VDC battery (P/N 151095, pg 83)

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10	25
147580	MK102	1.3"L x 1.4"W x 0.6"H	0.1	**$6.95**	**$5.95**	**$5.35**

Voice Activated Kit ■ *33-piece kit*

Uses sound to activate the flashing of 4 bright red LEDs.



- Adjustable sensitivity
- Power consumption: 0.5mA min. / 12mA max.

Requires: 8-15VDC power supply (P/N 100095, pg 68) or 9VDC battery (P/N 151095, pg 83)

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10	25
147571	MK103	2.5"L x 1.6"W x 1.4"H	0.1	**$9.95**	**$8.95**	**$7.49**

Light Sensitive Electronic Cricket Kit ■ *26-piece kit*

Sounds like a cricket when it gets dark!



- Adjustable cricket effect, tone and light sensitivity
- Minimum consumption: 9V / 5mA

Requires: 8-15VDC power supply (P/N 100095, pg 68) or 9VDC battery (P/N 151095, pg 83)

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10	25
147547	MK104	2.5"L x 1.7"W x 1.6"H	0.1	**$14.95**	**$13.49**	**$11.95**

velleman Christmas Tree Kit

This electronic X-mas tree contains two astable flashing circuits

NEW Back by popular Demand



- Operating voltage: 9VDC
- Minimum consumption: 4mA
- PCB dimensions: 2.4"L x 4.0"W

Part No.	Product No.	Wt. (lbs.)	1	10
147635	MK100 mini kit	0.1	**$12.95**	**$10.95**



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Metronome Kit ○ *27-piece kit*



- LED beat indication
- Adjustable volume and beats/minute
- Incorporated speaker
- On/off switch on board

Requires: 9VDC battery (P/N 151095, pg 83)

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
157331	MK106	2.4"L x 1.6"W	0.1	**$14.95**	**$13.49**

Water Alarm Kit ○ *7-piece kit*



- Gives an alarm sound when water is detected
- Water sensor can be placed at a distance by cutting the board and using wires for connection
- Incorporated alarm buzzer

Requires: 9VDC battery (P/N 151095, pg 83)

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
157315	MK108	2.8"L x 1.8"W	0.1	**$9.95**	**$8.95**

Light Computer Kit ▲ *122-piece kit*

This kit is a unique light producer for entertainment and display applications.



- 16 programs and 7 LED outputs
- Supply voltage for lamps: 24-240VAC

Requires: 7.5-9VAC @ 250mA power supply (P/N 100061, pg 67)

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
127600	K5201	5.4"L x 3.1"W	0.6	**$44.95**	**$39.95**

Universal Relay Card ▲ *64-piece kit*

An electronic controller that switches higher currents while providing insulation between the controller and the controlled devices.

Shown with 16 relays, only 8 relays included



- Relay contact: 5A/220V • TTL or CMOS inputs
- Contact rating: 12VDC/250mA

Requires: 220 or 125VAC power source

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
128910	K6714	8.3"L x 5.9"W	1.8	**$59.95**	**$53.95**
144186	VR15M121C relay (JZC-22F)		0.028	**2.95**	**2.49**

Liquid Level Controller ▲ *73-piece kit*

Controls the level of any container of liquid. Can replace the liquid sensors with temperature or light sensors for corresponding use.

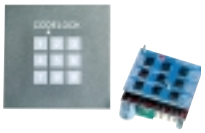


- Alarm signal provided for desired applications

Requires: 12-14VAC @ 300mA minimum power supply (P/N 10081, pg 67)

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
129154	K2639	4.1"L x 2.4"W x 1.0"H	0.5	**$21.95**	**$19.95**

Code Lock Kit ■ *67-piece kit*

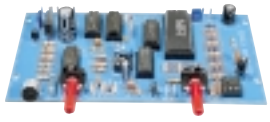


- Switch an alarm on and off or open door locks
- 3000+ codes possible • LED indicates state
- Pulse or switch outputs • Relay contact rating: 5A/220V

Requires: 9-15VDC (P/N 163491, pg 68) or 8-12VAC (P/N 100061, pg 67) power supply

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
127554	K6400	1.7"L x 1.8"W	0.5	**$32.95**	**$29.95**

Electronic Watchdog Kit ■ *104-piece kit*



- Reacts to environmental noise with adjustable sensitivity
- Choice of 2 different dog barking sounds
- Realistic simulation through random generator
- Can connect to other trigger detectors

Requires: 2-8VAC power source or 9-12VDC @ 500mA (P/N 114825, pg 68) power supply

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
127597	K2655	5.6"L x 2.9"W	0.5	**$37.95**	**$33.95**

Electronic Ignition System ■ *24-piece kit*

This kit assists automobiles with:



- Better starting and smoother running
- Lower fuel consumption
- Less pollution • Lower servicing costs

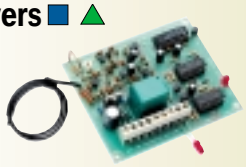
Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
120601	K2543	2.8"L x 1.4"W	0.4	**$17.95**	**$15.95**

KIT ASSEMBLY DIFFICULTY LEVEL: ○ = Beginner ■ = Intermediate ▲ = Expert

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

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Infrared and RF Code Lock Transmitters and Receivers ■ ▲



- Use for car alarms, garage doors, door locks, lighting control, etc. • Over 8000 selectable codes
- Use several transmitters with one receiver
- Receivers feature relay output (10A change-over or pulse contact)

Requires: Transmitter:12V battery type V23G; receivers: 12-16VDC @ 100mA (recommend P/N 100095, pg 68)

117655

Specifications:

Transmitter	117647	117647	134543
Transmission	RF	RF	IR
Channels	2-ch	1-ch	1-ch
Range	100'	100'	23'
Asmb. difficulty	expert	expert	novice
Use w/ receiver	**173235**	**117655**	**134551**



134543

Part No.	Description	Kit Pieces	Wt. (lbs.)	1	10
117647	K6706 2-ch transmitter (RF)	29	0.3	**$16.95**	**$14.95**
173235	K6727 2-ch receiver (RF)	75	0.5	**39.95**	**35.95**
117655	K6707A 1-ch receiver (RF)	75	0.5	**27.95**	**24.95**
134543	K6708 1-ch transmitter (IR)	16	0.3	**13.95**	**12.49**
134551	K6709 1-ch receiver (IR)	66	0.5	**28.95**	**26.95**

15-Channel Infrared Transmitter and Receiver ■



120555

- Applications: remote on-off switch, alarms, garage door opener, etc.
- 15 independent channels
- Transmitter/receiver range: ±30 meters

120555: Transmitter

Requires: 9VDC battery (recommend P/N 151095, pg 83)



120547

120547: Receiver

- Each output can be a change-over or pulse contact switch
- PCB dimensions: 2.8"L x 5.7"W

Requires: 8-14VDC (recommend P/N 100095, pg 68 or 129314, pg 69)

Part No.	Description	Kit Pieces	Wt. (lbs.)	1	10
120555	K6710 15-ch transmitter	37	0.8	**$59.95**	**$53.95**
120547	K6711 15-ch receiver	76	0.5	**44.95**	**39.95**

Remote Control by Telephone ▲ *116-piece kit*



- Possible to turn on or off up to three devices (switching lights on-off; check alarm systems; water heater on-off; garage doors)
- Check conditions of a switch (open or closed)
- Protected by a user-defined code
- Pick up after 3 or 8 rings (selectable)

Requires: 12VAC @ 300mA (recommend P/N 101258, pg 67)

Includes: Relay for one output (10A/250VAC)

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
120678	K6501	4.1"L x 5.1"W	0.7	**$62.95**	**$56.95**

Parking Radar ■ *55-piece kit*

Parking in tight places can be difficult, but the unit can tell you when you have come within an adjustable preset distance of the object behind you.



- Detection range: 5cm – 1.5m; angle: 5°
- Transmitter frequency: 40kHz
- PCB size: base (4.9"L x 1.9"W) sensor (3.8"L x 1.1"W)

Requires: 10-15VDC @ 16mA max (recommend P/N 100095, pg 68) or auto power plug (recommend P/N 115001, pg 85)

Part No.	Product No.	1	10	25
129120	K3502	**$44.95**	**$39.95**	**$34.95**

velleman

DC to Pulse Width Modulator ▲ *40-piece kit*

The circuit converts a DC voltage into a series of pulses, such that the pulse duration is directly proportional to the value of the DC voltage.



- PWM range: 0 to 100%
- PWM frequency: 100Hz to 5kHz (adjustable)
- Operating voltage: 8 to 35VDC
- Min. consumption: 35mA • Max. output current: 6.5A
- Efficiency: better than 90% at full load
- Adjustable sensitivity: 2.5 to 35VDC

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10	25
120539	K8004	3.3"L x 1.9"W x 1.8"H	0.5	**$19.95**	**$17.95**	**$15.95**

velleman

Stroboscope ▲ *19-piece kit*

Make your own snapshots and "lightning" light effects. Flash frequency adjustable from 2 - 20Hz.



- Input: 110VAC

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
117639	K5300	3.5"L x 2.6"W	0.5	**$18.95**	**$16.95**

velleman

Metal Detector ■ *22-piece kit*



- Proximity range adjustable to 8cm
- LED indicator; can use a buzzer as an option (P/N 105822, pg 65) • Dimensions: 2.1" x 2.1"

Requires: 9V battery (recommend P/N 151095, pg 83)

Part No.	Product No.	Wt. (lbs.)	1	10	25
129091	K7102	0.4	**$11.95**	**$10.95**	**$8.95**

Infrared Transmitter & Receiver Kit ○ *26-piece kit*



Transmit a 40kHz modulated I-R signal to a distance of 6' to 8'. Can be used as a remote switch to turn objects OFF and ON by infrared. The IR receiver will only receive 40kHz modulated infrared light. You can configure the output for normally ON or normally OFF operation. This allows you to use it as a security sensor or as a remote control switch. You can use the receiver to test TV or VCR remote controls.

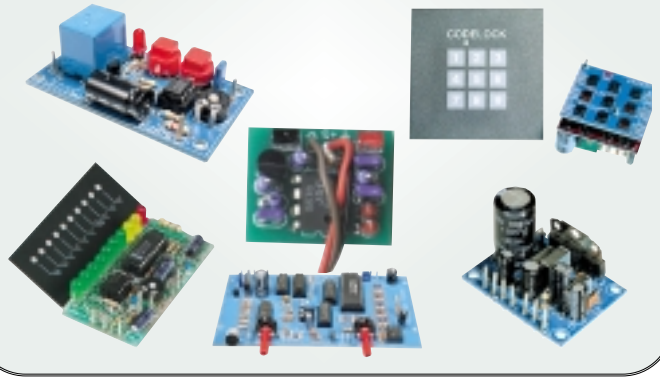
- Transmitter size: 1.0"L x 0.8"W • Receiver size: 1.4"L x 1.2"W

Requires: 6 to 15VDC (recommend P/N 151095, pg 83)

Part No.	Product No.	Description	1	10
177092	IR-2	Transmitter/receiver	**$22.95**	**$20.95**

See pages 172 and 173 for more velleman Kits

○ = Beginner ■ = Intermediate ▲ = Expert



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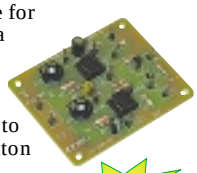
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Timer Debounce Kit ○ *36-piece kit*



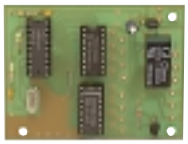
Based on the LM555 timer chip, a highly stable device for generating accurate time delays or oscillation. When a switch is turned on or off, mechanical bounce noise generates spurious pulses. When operated in mono-stable mode, the EBTD-9 prevents these noise pulses from adversely affecting your project. Use this circuit to set clocks or counters – any time you need a push-button switch. Or, run the kit in astable mode and learn how clock / timer oscillator circuits work.

SALE

Requires: 5VDC power supply (recommend P/N 177050, below)

Part No.	Product No.	Dimensions	1	10
177076	EBTD-9	T2.3"L x 2.8"W	$9.95	$8.95

Sweet 16 Tone Decoder Kit ■ *19-piece kit*



Sweet 16 Tone Decoder detects dual tone multi-frequency (DTMF) data, those sounds you hear when pushing buttons on your phone. When each individual button is pressed it sends a unique voltage to the electronics on the printed circuit board which activates a circuit on or off. There are 16 different touch tones, 12 of which are on a normal phone; special key pads have 4 additional buttons (A, B, C, D). This decoder gives an output voltage for all 16 touch tones.

Part No.	Product No.	Dimensions	1	10
181876	TT-16	2.8"L x 2.2"W	$34.95	$31.95

Touch Switch Kit ○ *28-piece kit*



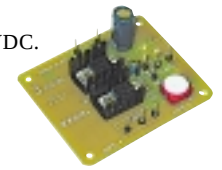
Do away with noisy mechanical switches that wear out. Lightly put pressure on the EBTS-10 touch switch and the lights, CD player, or other appliances come on. Touch the switch again, and it goes off. Based on the LM555 timer running in monostable timing mode, as well as the CD4518 dual BCD up counter used as a flip-flop, this kit includes a relay driver transistor and a DPDT relay whose contacts are rated at 1.5A. You can switch a 300W appliance with the EBTS-10.

SALE

Requires: 5VDC power supply (recommend P/N 177050, below)

Part No.	Product No.	Dimensions	1	10
177084	EBTS-10	2.3"L x 2.8"W	$9.95	$8.95

Power Supply Kit ○ *24-piece kit*



This kit supplies tightly regulated and filtered +5VDC, as well as variable output from +6 to +10VDC. It also delivers up to 300mA, and features internal thermal overload protection, as well as internal short circuit limit.

Includes: 12VDC @ 300mA wall transformer with 2.1mm x 5.5mm center positive connector

Part No.	Product No.	Dimensions	1	10
177050	EBPS-4	2.3"L x 2.8"W	$17.95	$15.95

Ceramic Cylinder Magnet

SALE



Great for projects and experiments. .625"Dia. x .625"H.

Magnets cannot be shipped by air.

Part No.	Description	1	10	100	500
167100	Ceramic magnet	$.15	$.13	$.11	$.09

ELENCO Transistor and Diode Tester Kit ■ *81-piece kit*

Transistor Mode:
- Measures relative beta of two transistors
- Identifies NPN and PNP, PN or NP junctions
- Tests transistors in circuit with base or collector resistors as low as 100Ω

Diode Mode:
- Indicates cathode or anode leads of diode
- Operates in circuit with resistors 5k and above

Includes carrying case



Part No.	Dimensions	Wt. (lbs.)	1	10
119360	6.3"L x 3.8"W x 2.0"H	1.0	$22.95	$19.95

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Digital Clock Kit ■ *183-piece kit*

Super-Bright LEDs!

2.5" High 6-Digit Display



- Fast/slow set switches
- Time hold control switch
- Safe low input voltage: 9VAC
- 12 or 24 hour display switch
- Bright 2.5" high 6-digit red displays • Can be viewed from over 50' away
- Assembled kit shown below (P/N 109268)

KIT

105507 Kit: PC board, components, wall transformer and kit instructions – 183 total pieces. Case with red lens sold separately (109241)

109241: Enclosure for Digital Clock Kit
- Black satin anodized aluminum

Enclosure includes: Red lens, mounting hardware and easy-to-follow instructions



109241

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
105507	JE725KIT	17.5"L x 3.5"W (board)	1.2	$69.95	$62.95
109241	JE725CEAN	18.0"L x 5.3"H x 1.4"D	1.7	39.95	35.95

Assembled Digital Clock

2.5" High 6-Digit Display



- Fully assembled JE725 digital clock above in black satin anodized aluminum case
- Hour/minute hold switches
- 8 ft. power cord

Assembled

Includes: 9VDC @ 800mA power supply

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
109268	JE725AEA	18.0"L x 5.3"H x 1.4"D	3.5	$135.95	$121.95

Function Generator Kit ■ *21-piece kit*

Sine, Triangle and Square Wave



Great for prototyping electronic circuits, whether analog or digital! Produces sinusoidal, triangular, and square waveforms at frequencies continuously variable from 1Hz to 100kHz.

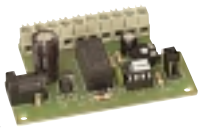
Includes external components!

- 21-piece kit (chip, components, PC board, hardware)

Requires: 12VDC supply or ±6VDC split supply (recommend P/N 20626, below)

Part No.	Product No.	Dimensions	1	10	25
20685	JE2206	4.1"L x 1.5"W	$24.95	$22.95	$19.95

PIC Relay Controller Kit ■ *22-piece kit*



This is a good companion for any kit that needs additional amperage or micro-controlled relay function.

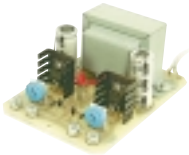
- Preset relay functions: on/off toggle mode, on/reset mode, fixed delay 0.5 second pulse stretch, fixed delay 10 second pulse stretch, variable time 1.5 to 14 seconds, variable time 11 to 24 seconds, 3 amp total output, and input and reset signal can be active hi or low

SALE

Includes: 12VDC@30mA wall transformer

Part No.	Product No.	Dimensions	1	10
181850	PRC-1	2.7"L x 1.8"W	$24.95	$22.49

Dual Adjustable Regulated Power Supply Kit ■ *48-piece kit*



- Adjustable positive and negative supplies ±5 to ±15VDC, 175mA – 750mA per supply • 120VAC input
- PC board construction • LED on indicator

Includes: Components and hardware

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10	25
20626	JE215	5.1"L x 3.5"W x 2.0"H	2.1	$22.95	$20.49	$18.49

Ultrasonic Motion Detector Kit ■ *49-piece kit*



- 2 boards: one with matched pair of ultrasonic transducers to detect motion from 4-7m away; 2nd board contains crystal controlled oscillator & all circuits
- Switchable latch, red LED indicator
- Solder pad output to drive external relay or circuits
- Size: main board: 2.8"L x 2.0"W x 0.8"H; transducer board: 2.8"L x 0.6"W x 0.9"H

Requires: 9V battery (recommend P/N 151095, pg 83)

Part No.	Description	1	10
125090	Ultrasonic alarm kit	$29.95	$26.95

Part Number Color Code Legend: NEW | SALE | REFURBISHED | CLOSEOUT

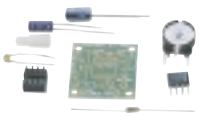
Unipolar Stepper Motor Driver Kit ■ 29-piece kit



- Will drive unipolar stepper motors rated at 6-30VDC @ 1.25A (or less)
- Drives 5, 6 or 8 lead unipolar stepper motors
- 5VDC regulator stabilizes power to the 555 clock IC

Part No.	Description	Dimensions	1	10
139109	Stepper motor	2.6"L x 1.9"W x 1.0"H	$29.95	$26.95

1 Watt Amplifier Kit ■ 9-piece kit



- Ideal part for larger projects and battery powered circuits
- Circuit designed around a single TDA7052 IC
- Drives 8Ω speaker (not included – recommend P/N 135773, pg 66)
- Battery and battery snap not included (recommend P/N 151095 and 109153, pg 83)

Part No.	Description	Dimensions	1	10	25
125111	1 watt amp kit	.3"L x 1.1"W x 0.9"H	$5.95	$5.49	$4.95

17.5 Watt Bridged Amplifier Kit ● 17-piece kit

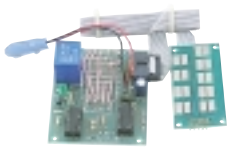


- Drives 3-8 ohm speakers (2 required for stereo)
- Based on the Hitachi HA13118 dual amplifier IC

Requires: 12VDC supply (recommend P/N 100095, pg 68)

Part No.	Description	1	10
136207	17.5 watt amplifier kit	$15.95	$14.49

Electronic Combination Lock Kit ■ 26-piece kit

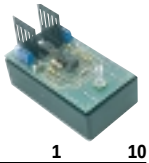


- 2 boards: one with 1-9 touch pads and connected to 2nd board by 3 ft. cable; 2nd board has decoding ICs, matrix to set 4 number code, and relay to control external loads

Requires: 9V battery (recommend P/N 151095, pg 83)

Part No.	Description	Dimensions	1	10
125129	Lock kit	3.0"L x 2.5"W x 1.0"H	$11.49	$10.49

D.C. Motor Speed Control ■ 35-piece kit



- This kit uses Pulse Width Modulation to vary the speed of a DC motor with maintenance of torque
- For motors up to 100VDC/5A max.

Requires: 5-16VDC supply (recommend P/N 114825, pg 68)

Part No.	Description	Dimensions	1	10
127829	Motor control kit	3.6"L x 2.3"W x 1.2"H	$29.95	$26.95

Speech Recognition Circuit Kit ▲ 41-piece kit

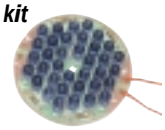


- Includes a PCB, keypad, digital display, microphone and necessary components • External RAM support
- Single chip voice recognition CMOS LSI
- Speaker dependent • Microphone support
- Max. 40 word recognition at 0.96 seconds word length
- Min. 20 word recognition at 1.92 seconds word length
- PCB dimensions: 4.8"L x 4.4"W • Keypad dimensions: 2.8"L x 2.8"W

Requires: 9V battery (recommend P/N 151095, pg 83)

Part No.	Product No.	Description	Wt. (lbs.)	1	10
141401	HM2007U1	Speech kit	0.6	$109.95	$99.95

IR LED Illuminator Kit ● 41-piece kit



- 36 high powered infrared LEDs
- At 24' the beam is approximately 3.5' across

Requires: 12-15VDC power supply (recommend P/N 114825, pg 68)

Part No.	Description	Dimensions	1	10	25
157964	IR illuminator kit	2"Dia.	$14.95	$13.49	$11.95

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Siren Kit ● 20-piece kit



- Oscillator is off until you press the switch, then a rising tone is produced until a steady value is reached
- If switch is released, tone starts dropping until it cuts off
- Circuit designed around a dual op amp connected as an oscillator and driver

Requires: 9V battery (recommend P/N 151095, pg 83)

Part No.	Description	Dimensions	1	10	50	100
125137	9V siren	2.0"L x 0.8"W x 0.5"H	$6.95	$6.25	$5.59	$4.95

One Chip AM Radio Kit ■ 39-piece kit

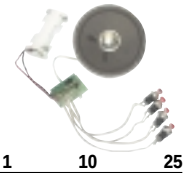


- This kit uses a single IC that performs as an RF amp, detector and AGC in an AM radio

Requires: 9V battery (recommend P/N 151095, pg 83)

Part No.	Description	Dimensions	1	10	25
125161	AM radio kit	4.0"L x 1.3"W x 0.5"H	$13.95	$12.95	$11.95

Train Sound Kit ● 11-piece kit



- Produces 4 train sounds
- Components supplied for operation on 3VDC (includes battery holder for 2 AA batteries), but circuit will operate from 2.4-6VDC (recommend P/N 151087 2 each, pg 83

Part No.	Description	Dimensions	1	10	25
125170	4 train noises	1.1"L x 0.6"W x 0.2"H	$6.95	$6.49	$5.95

DC Voltage Monitor Kit ● 46-piece kit



If battery status is important, you need this kit. It uses 7 LEDs to monitor 12VDC in 1V, 1/2V, or 1/4V steps. Monitor 8V or 5V in 1/4V steps. Great for boats, motor homes, model planes or race car ni-cads.

Part No.	Product No.	Dimensions	1	10
181833	VM-1	2.7"L x 1.3"W	$8.95	$7.95

Super Snooper Big Ear Audio Amplifier Mini Kit ■ 17-piece kit



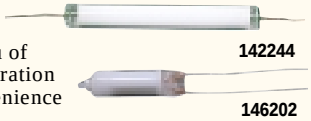
Listen through walls, hear conversations across the room or even listen to sounds a block away. Add a parabolic reflector or mount the microphone in a tube, to isolate unwanted noise and make the microphone a directional one.

- Outputs for speakers or headset
- Operating voltage: 9VDC (recommend P/N 151095, pg 83)

Includes: Instructions and schematic

Part No.	Dimensions	1	10	100
151204	1.8"L x 1.0"W x 0.6"H	$10.95	$9.95	$8.95

JKL Single Lead Tipless-Type Fluorescent Lamps



142244

146202

World's smallest fluorescent and ultra violet lamps. These energy efficient miniature lighting innovations assure you of bright, uniform output, long life, cool operation and unmatched reliability, with the convenience of off-the-shelf availability.

142244: compatible with P/N 142252 (below) • Lamp current: 5.0mA (12 max.)
146165/146157: compatible with P/N 146190 (below) • Lamp current: 5.0mA
146202: requires 15kΩ series resistor, runs off line voltage • Lamp current: 3.0mA
* Circuit voltage

Part Number	Starting Volt. (Vrms)	Lamp Volt. (Vrms)	Intensity (nt)	Size (in.) L x Dia.	Pricing 1	10	25
146202	75 (max.)	115*	—	0.9 x .23	$3.95	$3.55	$3.19
142244	390	170	3500	2.0 x .25	13.95	12.49	10.95
146157	850	345	2400	6.3 x .12	13.75	12.38	11.14
146165	1200	520	28000	10.0 x .12	13.95	12.49	10.95

JKL Fluorescent Lamp Power Supplies



146190 142252

These DC inverters are designed especially for cold cathode fluorescent lamps.

- Output voltage:
  146190: 600Vrms @ 4mA, 30kHz **142252:** 850Vrms @ 5.5A, 20kHz

Part No.	Product No.	Input Voltage	PCB Size (W x H x T)	1	10	25
146190	65010	5VDC @ 200mA	1.7" x 0.8" x .04"	$13.95	$12.49	$10.95
142252	12200	12VDC @ 260mA	1.8" x 0.8" x .04"	15.95	14.49	12.95

Fiber Optic Designer's Kit

Simplex Kit



This "active link"interfaces with all TTL / CMOS logic and requires a single +5-volt power supply (recommend P / N 164101, pg 67). It includes 32' (10m) of 1000µm diameter plastic optical cable; 4 efficient dry, non-polish connectors, 2 bulkhead interfaces, 2 splices; 1 integrated detector and 1 emitter; and 2 top-quality printed wiring boards. Full instructions and technical data sheets complete the package.

Part No.	Description	1	10
169893	Fiber Optic Kit	$62.95	$56.95

Lab Course and Lab Kit



Experiment guide contains nine fiber optics experiments. Kit contains all the fiber optic and electronic components required to complete the experiments in the guide.

Experiments Include:

- Making a light guide • Fiber optic transmitter
- Fiber optic cable transmission
- Characteristics of connectors and splices
- Index-matching procedures • Receiver design
- Speed of opto-electronic devices
- Fiber termination techniques • Weight: 0.7 lbs.

Part No.	Description	1	10
169914	Lab Course and Lab Kit	$44.95	$39.95

9.8' Optical Voice Link Kit



This kit is the ideal introduction to the science of light transmission through 9.8' optical fiber.

- Weight: 0.6 lbs.

Requires: 9V battery, recommend (P/N 151095, pg 83)

Part No.	Description	1	10
169922	9.8' Optical Voice Link Kit ...	$44.95	$39.95

Educational Communication Kit



Explore fiber optic technology using this great hands-on educational product. This 3' digital link can also be used to construct high-voltage isolation for telephones, modems and computers.

Includes: 3' Optical Fiber Cable

Part No.	Description	1	10
169906	Ed. Communication Kit	$19.95	$17.95

ALPEC Laser Pointer with Key Ring

Class IIIa Laser Product



- Range up to 150 yards
- 650mm red laser
- Color: silver
- Size: 2.1"L x 0.5"Dia.
- One-year warranty

Includes: 2 coin cell batteries

Part No.	Description	1	10
153613	Laser pointer w/ key ring	$16.95	$14.95

Levels with Laser Diode



- Line and dot laser models
- Laser wavelength: 650nm
- Skew is determined by built-in bubble
- Two magnets at the bottom of the unit for metal to magnet mounting
- Threaded mounting hole at the bottom of unit for tripod mounting
- Size: 5.4"L x 0.8"W x 1.4"H

Includes: User manual, 2 AAA batteries and plastic casing

Part No.	Product No.	Type	1	10
169762	TI3284E	Line laser.....	$59.95	$53.95
169771	TI3284D	Dot laser.....	54.95	49.95

ALPEC Laser Pointer Pens

Class IIIa Laser Product

- Range up to 500 yards
- 670nm red laser

153605:

- Color: black
- Size: 5.2"L x 0.4"Dia.



Class IIIa Laser Product

127749:

- Silver brass
- Size: 5.4"L x 0.4"Dia.



Includes: 2 AAA batteries

Part No.	Description	1	10
153605	Laser pointer pen	$19.95	$17.95
127749	Laser pointer pen	21.95	19.95

Infrared Remote-Control Receiver Modules

SALE



- Used in TVs, VCRs, audio equip., car stereos and home computers
- Single unit module which incorporates a PIN diode and a receiving preamplifier IC
- 940nm wavelength
- Excellent mechanical strength and electrical stability • Size: 0.6"L x 0.6"W x 0.5"H

Part No.	Description	Voltage Input	1	10	100	1000
139889	37.9kHz infrared remote receiver, top view	5VDC @ 2mA	$2.95	$2.49	$1.95	$1.49
131908	38.0kHz infrared remote receiver, side view	5VDC @ 2mA	2.95	2.49	1.95	1.49
165008	40.0kHz infrared remote receiver, top view	5VDC @ 5mA	2.95	2.75	2.25	1.95
176541	56.8kHz infrared remote receiver, side view	5VDC @ 2mA	1.95	1.75	1.25	.99

Troubleshooting and Repairing Computer Monitors (1997)



TAB Publishing CRT alignment and degaussing; state of the art plasma displays; specs. and architectures of monochrome, CGA, EGA, and VGA monitors; supports both CRT and LCD monitors (298 pages)

- Size: 9.5" x 7.5" • Weight: 1.5 lbs.

Part No.	Description	1	10
123764	Troubleshooting Monitors	$19.95	$16.95

CD-R/DVD Disk Recording Book (2000)



McGraw-Hill Includes topics such as creating and replicating discs inexpensively without errors; techniques for digitally recording music, video and multimedia; understanding CD-R and DVD; creating content quickly using tools and applications. (528 pages)

- Size: 7.2" x 9.4" • Weight: 2.2 lbs.

Includes: CD-ROM with trial software

Part No.	Description	1	10
175231	CD-R/DVD Disc Recording	$49.95	$44.95

PC Hardware Projects Vol 2 (1997)



Prompt Publications If you have always wanted to work with stepper motors and need a setup to drill your own PC boards quickly and accurately, this is the book that will help you. (222 pages)

- Size: 7.8" x 9.3" • Weight: 1.0 lb.

Includes: Companion disk.

Part No.	Description	1	10
143280	PC Hardware Projects Vol 2	$29.95	$26.95

Controlling the World with Your PC (1994)



Hightext Publishing Make your PC control stepping motors, monitor fluid levels, or switch appliances on and off! Each of the circuits in this book connects directly to the parallel printer port of your PC and comes complete with a circuit diagram and listings for control software written in Pascal, C and BASIC. (257 pages)

Includes: 3.5" disk

Part No.	Description	1	10
116943	Controlling the World	$32.95	$29.95

Everything You Need To Develop Custom USB Peripherals Book



Lakeview (2nd Edition) This USB Complete book provides an easy-to-use interface for computer peripherals. The book covers topics such as what USB can do, transfer types, chip choices, what's inside a USB controller, writing firmware, how the host communicates and more. (523 pages)

- Size: 7.0" x 9.0" • Weight: 1.9 lbs.

Part No.	Description	1	10
171900	Complete USB Book	$49.95	$44.95

Troubleshooting and Repairing Consumer Electronics Without a Schematic (1997)



TAB Publishing Learn how to locate, test, and repair defective components in audio amplifiers, car radios, cassette decks, TV chassis, compact disc players, power supplies, AM/FM receivers and VCRs. (475 pages)

- Size: 7.4" x 9.3" • Weight: 1.1 lbs.

Part No.	Description	1	10
136080	Consumer Electronics	$24.95	$22.49

TV/VCR Combo Units Servicing Series



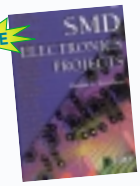
Prompt Publishing

Straightforward troubleshooting advice, theory of component solutions, and model-specific repair advice. (334 pages)

Part No.	Description	1	10
190481	TV/VCR Servicing Series	$34.95	$31.95

Part Number Color Code Legend
NEW | SALE | REFURBISHED | CLOSEOUT

SMD Electronics Projects (2000)



SALE

Prompt Publications Provides 30 electronic projects utilizing SMD (surface mount devices). A fairly new technology, these projects are built with readily available components. Projects include earphone radio, Xtal receiver, short-wave receiver, IC radio, FM radio, LED flasher and so on. (296 pages) • Size: 6.0" x 9.0" • Weight: 1.0 lbs.

Part No.	Description	1	10
172988	SMD Electronics Projects	$24.95	$22.40

IC Cross Reference Book (1998)



Prompt Publications The most comprehensive replacement and substitution guide available for engineers, technicians, and anyone who works with ICs and modules. The IC Cross Reference book is from the makers of PHOTOFACT® service documentation. It includes more than 35,000 part and type number listings for the United States, Europe, and the Far East. (152 pages)

• Size: 8.5" x 10.8" • Weight: 0.9 lbs.

Part No.	Description	1	10
124679	IC Cross Reference Book ..	$26.95	$23.95

Exploring Programmable ICs Book (2001)



Prompt Publications With this book, you'll learn how to bypass this software constraint and operate ICs directly with hardware circuitry on your bench top. In this comprehensive book, you'll find in practical, well explained detail complete operating set-ups for a variety of programmable devices ranging from D-A converters to interval timers, universal asynchronous receiver / transmitters (UARTs), peripheral interface adapters (PIAs), and more. (344 pages)

• Size: 7.5" x 9.4" • Weight: 1.4 lbs.

Part No.	Description	1	10
185551	Programmable ICs	$34.95	$31.49

Encyclopedia of Electronic Circuits on CD-ROM

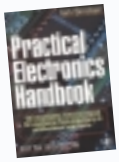


Tab/McGraw-Hill Electrical engineers can turn to this new CD-ROM for an interactive, electronic version of the Encyclopedia of Electronic Circuits. It features 1,000 circuitry drawings from the 5-volume set. Fully searchable.

• Weight: 0.5 lbs.

Part No.	Description	1	10
130500	Encyclopedia CD-ROM	$99.95	$89.95

Practical Electronics Handbook (2000)



Newnes Publishing A unique book that covers all the key data, facts, practical guidance and circuit design basics needed. This book provides a wealth of clear explanations and practical guidance, making the ideal text for students and practitioners of electronics who have progressed beyond the basics. (561 pages)

• Size: 6.1" x 9.2" • Weight: 1.9 lbs.

Part No.	Description	1	10
175409	Practical Electronics Book	$35.95	$31.95

99.7% Availability

Your Best Source for
New and Out-of-Production
Electronic Products at Value Prices

Understanding Electronics (1989)



TAB Publishing A thorough examination of dozens of components, including the latest photoelectronic and digital IC components. You'll learn exactly what each one is, what it looks like, what it does, and in what types of circuits it is used. (205 pages)

• Size: 7.3" x 9.3" • Weight: 0.9 lbs.

Part No.	Description	1	10
73664	Understanding Electronics	$14.95	$13.49

Electronic Pocket Reference (2000)

Third Edition



McGraw-Hill Publishing Compact and complete, and featuring formulas, tables and diagrams in place of lengthy text description. The only electronics information you need.(529 pages)

• Size: 4.0" x 6.0" • Weight: 0.9 lbs.

Part No.	Description	1	10
174481	Electronics Pocket Ref.	$24.95	$22.49

Simple, Low Cost Electronics Projects (1998)



Technology Publishing Electronics is the art of creating useful devices from components. This book will guide you through step-by-step instructions on how to build, test and pack the projects. With a complete list of components, projects include: inductance and semiconductor testers, a variable frequency audio oscillator, voltmeter, multimeter & more! (216 pages)

SALE

• Size: 8.5" x 11.0" • Weight: 1.2 lbs.

Part No.	Description	1	10
154991	Electronics Projects	$16.95	$14.95

Practical Electronics Book for Inventors (2000)



McGraw-Hill Provides information needed for practical use in a format you can understand. With hand-drawn illustrations, this learn-as-you-go guide shows you what a particular device does, looks like and compares with other similar devices. Provides an easy-to-understand overview of basic components, resistors, diodes, capacitors, inductors, rectifiers, amplifiers, voltage regulators, discrete passive and active devices and so on. (604 pages)

• Size: 8.4" x 11" • Weight: 2.8 lbs.

Part No.	Description	1	10
174529	Personal Robots Navigation	$39.95	$34.95

Video Scrambling and Descrambling for Satellite and Cable TV (1998)

2nd Edition



This best selling book details the hows and whys of encoding and decoding video signals. Included is information on analog/digital conversion, phase-locked loops, digital techniques, and IC data sheets. (292 pages)

• Size: 8.5" x 11.0" • Weight: 1.3 lbs.

Part No.	Description	1	10
136442	Scram & Descrambling	$32.95	$29.95

Robots, Androids and Animatrons (1998)



McGraw-Hill Demonstrates how to put together the latest in robotics technology. Includes projects like robotic hands that perform a repetitive task, robotic insect with brain, robots with arcade applications, etc. (270 pages)

• Size: 7.5" x 9.0" • Weight: 1.3 lbs.

Part No.	Description	1	10
150498	Robots, Androids, Animatrons	$19.95	$17.95

Robot Builder's Bonanza (2001)



TAB Publishing This fascinating guide offers you a complete, unique collection of tested and proven project modules that you can mix and match to create an almost endless variety of highly intelligent and workable robot creatures. (753 pages)

• Size: 7.3" x 9.2" • Weight: 2.5 lbs.

Part No.	Description	1	10
137171	Robot Builder's Bonanza	$23.95	$21.45

Mobile Robots Book (1999)



A.K. Peters This book guides the reader through the step-by-step process of constructing two different inexpensive yet fully functional robots with different capabilities. This book is also a starting ground for creating robots of your dreams. (457 pages)

• Size: 6.1" x 9.1" • Weight: 1.5 lbs.

Part No.	Description	1	10
154131	Mobile Robots Book	$39.95	$34.95

Personal Robot Navigation Book (1998)



A.K. Peters Provides us with the concept and understanding of how robot navigation works, planning the area for placing sensors and other devices for robots to respond to. (199 pages)

SALE

• Size: 9.2" x 8.0" • Weight: 1.3 lbs.

Includes: 3.5" diskette

Part No.	Description	Price
159821	Personal Robots Navigation	$39.95

Applied Robotics Book (2001)



Prompt Publishing Designed to give the beginner a thorough and complete introduction into the field of robotics with simple projects and easy-to-read explanations. Detailed and extensive schematics, programs, and descriptions guide you through challenges of building a working robot. (311 pages)

• Size: 7.4" x 9.2" • Weight: 1.3 lbs.

Includes: CD-ROM

Part No.	Description	1	10
185501	Applied Robotics Book	$29.95	$26.95

Data Acquisition Book (1995)



National Semiconductor Data acquisition systems, active filters, analog switches and multiplexers, A-to-D and D-to-A converters, sample and hold, temperature sensors, voltage references and surface mount. (958 pages)

• Size: 7.0" x 9.0" • Weight: 3.0 lbs.

Part No.	Description	1	10
41208	Data Acquisition Book	$13.95	$12.49

Handbook of Microcontrollers (1999)



McGraw-Hill Covers topics such as architecture, instruction set for the built-in processor, features and peripherals of the microcontroller and common methods of interfacing microcontrollers with peripheral devices. Supports devices such as PIC MI DS1820, DS1307, 8051, 80C310/320/520, 68HC05C8/ 705J1A/05P9A. (861 pages)

• Size: 7.5" x 9.0" • Weight: 3.9 lbs.

Includes: CD-ROM with application building tools, source code examples and manufacturer's data sheets

Part No.	Description	1	10
161832	Microcontroller Handbook	$39.95	$35.95

Programming and Customizing 8051 Microcontroller Book (1999)



McGraw-Hill Provides you with a complete understanding of the 8051 chip compatibles along with all the information needed to design and debug applications. Covers how to use these embedded chips to access and control many different devices. Includes over 30 experiments, 12 projects, & CD-ROM featuring source code and PDF data sheets. (541 pages) • Size: 7.5" x 9.2" • Weight: 2.5 lbs.

Part No.	Description	1	10
161402	Programming/Customizing	$34.95	$31.49

The Microcontroller Application Cookbook (2000)



Woodglen Press This cookbook is a collection of interface circuits. It is a reference to circuits and interface code that can be customized for more advanced users. (248 pages)

• Size: 5.3" x 8.6" • Weight: 0.7 lbs.

Part No.	Description	1	10
181681	Microcontroller Cookbook	$29.95	$26.95

IC Projects Book (1997)



Prompt Publishing Written for hobbyists and technicians who are interested in projects for integrated circuits – projects that you will be able to breadboard quickly and test easily. (212 pages)

• Size: 6.0" x 9.0" • Weight: 0.7 lbs.

Part No.	Description	1	10
143271	IC Projects Book	$24.95	$22.49

CMOS Cookbook (1997)



Newnes Publishing Everything you need to know to intelligently use CMOS circuits. User-oriented, stresses real-world applications, pays attention to detail, with a minimum of math and heavy theory. (512 pages)

• Size: 5.5" x 8.5" • Weight: 1.3 lbs.

Part No.	Description	1	10
39221	CMOS Cookbook	$24.95	$22.49

TTL Logic Data Book (1988)



Texas Instruments Contains specifications and technical information on a broad line of TTL integrated circuits including Schottky TTL circuits. (1240 pages)

• Size: 6.0" x 8.5" • Weight: 2.6 lbs.

Part No.	Description	1	10
88225	TTL Logic Data Book	$34.95	$31.49

Programming and Customizing PIC Book (1998)



McGraw-Hill Details the features of the PIC microcontroller and how different devices are accessed and controlled. Shows what happens within the PIC when an instruction is executed and how it interfaces with external devices. Includes 12 projects, 30 experiments and suggestions for debugging and easier code development. (352 pages) • Size: 7.4" x 9.1" • Weight: 1.7 lbs.

Includes: 3.5" disk

Part No.	Description	1	10
163150	PIC Book	$34.95	$31.49

PIC Microcontroller Project Book (2000)



McGraw-Hill This book provides you with hands-on directions for putting Microchip's RISC-based chips with up to 8k of memory to work. Starting with simple projects and experiments, this book leads you gradually into sophisticated programming techniques. This book will provide you guidance on getting the equipment you need, programming your chip, making your chip count numerically, deliver messages on a LCD display, and so on. (203 pages)

• Size: 7.3" x 9.2" • Weight: 1.0 lb.

Part No.	Description	1	10
174650	PIC Microcontroller Book	$29.95	$26.95

Programming & Customizing PIC Book (2001)



McGraw-Hill Details the features of the PICmicro® and how to use these embedded chips to access and control many different devices. Shows what happens within the PICmicro® when an instruction is executed and how it interfaces with external devices. Includes tools for developing applications, sample operating systems, tips to make code development and debugging easier and PCB for programming (1190 pages)

• Size: 9.2" x 7.3" • Weight: 4.0 lbs.

Includes: CD-ROM and PIC PCB

Part No.	Description	1	10
183046	PIC Book (second edition)	$49.95	$44.95

IC Design Projects Book (1998)



Prompt Publishing Information of how a handful of versatile ICs work. Gives you information about TTL and CMOS ICs, and how power supplies, op amps and phase lock loops work. It also includes schematic diagrams, a step-by-step guide, parts list, and how to test projects such as battery chargers, 5-volt power supplies, DC motor controls, darkroom timers and so on. (261 pages) • Size: 7.4" x 9.3" • Weight: 1.0 lb.

Part No.	Description	1	10
153349	IC Design Projects Book	$21.95	$19.95

Programming and Customizing The BASIC Stamp and CD-ROM (1998)



McGraw-Hill A comprehensive tutorial on the easy to use BASIC Stamp single board computer and a primer on electronics. Includes software tools to begin developing PIC applications (284 pages)

• Size: 7.4" x 9.0" • Weight: 1.2 lbs.

Part No.	Description	1	10
154667	BASIC Stamp Book	$32.95	$29.95

PIC'n Techniques Book (1999)

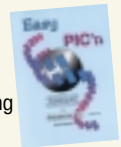


Square 1 Publishing Describes the unique features of the 8-pin microcontrollers; the use of timers 1 and 2; capture/compare module; followed by timing, counting and pulse width modulation. (311 pages)

• Size: 8.5" x 11.0" • Weight: 2.0 lbs.

Part No.	Description	1	10
161242	PIC'n **Techniques**	$34.95	$31.49

Easy PIC'n (1999)



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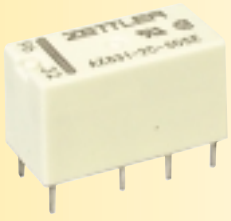
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Part Number Color Code Legend
NEW | SALE | REFURBISHED | CLOSEOUT

DIP Relay

$1.95
173913



- Logic control levels
- DPDT • 5VDC • 0.5A/125VAC
- Moisture resistant
- Compatible with IC sockets
- Long life with reliable operation
- Compact design/construction
- Excellent for PCB applications

General Purpose Relay

For More Relays See Pages 42 - 48

$6.95
139854



Quick Connect Blade Terminals Series 388

Flat terminals (0.187" x 0.020") for standard plug-in mounting; also accepts quick-connect receptacles or direct soldering.

LM309K, 5V 1A Regulator



- TO-3 package
- 0˚C to +125˚C

$4.49
23499

More IC Regulators See Page 9

51-Watt Switching DC Power Supply

$6.95
169050

Switching Power Supplies See Pages 72 - 76

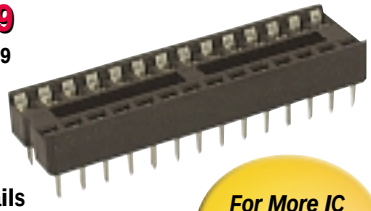


- Output voltages: +5VDC @ 3A; +12VDC @ 3A
- Input voltage: 115/230VAC @ 50/60Hz
- UL/CSA/TUV certified

Solder Tail Low Profile Socket

Dual Wipe Tin Plated

$.19
112299



- 28-Pins
- Contact current: 1A
- Tin-plated contacts and tails
- Contact resistance: less than 5mΩ
- Dielectric withstanding voltage: 300Vrms
- Insulation resistance: greater than 1000MΩ
- Material: beryllium copper or phosphor bronze
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide
- Sleeve material: brass

For More IC Sockets See Page 50

AC/DC Regulated Table-Top Power Supply



- Output voltage: 30VDC
- Output current: 0.5A
- Output watts: 15W
- Input voltage: 100-240VAC @ 50/60Hz
- Output plug: 2.5mm x 5.5mm female; center positive

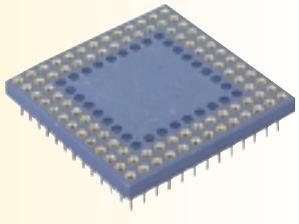
$9.95
173665

For More Table-Top Power Supplies See Pages 70 - 71

88-Pin Solder Tail PGA Socket

PGA Sockets See Page 51

$.31
172355



- 13 x 13 pin grid array
- Contact plating: gold
- Rated current: 1A
- Rated voltage: 100Vrms

3-Conductor Detachable Power Supply Cord

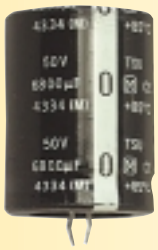
Power Supply Cords See Page 95

$2.95
103747



- 6' • Gray • 18/3SVT
- Molded connectors
- Excellent resistance to jacket abrasion
- Temperature: -20°C to +60°C
- Voltage rating: 300 volts

Large Can Aluminum Electrolytic Snap Capacitor



Designed as input filter for switched mode power supply

$2.75
115431

- 6800µF
- 50VAC

Memory Back-Up Capacitor

Excellent Voltage Holding Characteristics

More Capacitors See Pages 23 - 25

$2.49
143010



- 0.47F
- 5.5VDC

Delta 12 VDC Brushless Fan

- Blower type
- Air flow: 11.3 CFM
- Ball bearing
- Current: 360mA
- Power: 2.6 Watts
- Noise: 38dBa

$8.95
134586

See Pages 86 - 88 for More Fans



12 VDC Motor

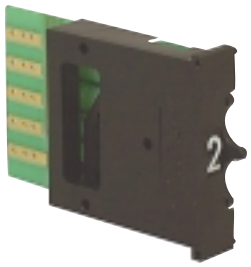


- 3000 RPM (max.)
- Nominal voltage: 12VDC
- Voltage range: 9V-14V
- Current: 0.015 amps
- Terminal type: .11"/solder
- Shaft diameter: 0.08"
- Shaft length: 0.69"

See Pages 100 - 104 for Our Complete Selection of Motors

$.85
174692

JOHNSON ELECTRIC



10-Position Thumbwheel BCD Switch

$3.95
26817

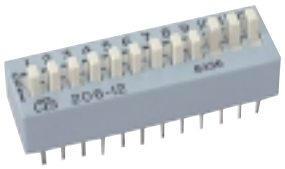
- 0.15A @ 50VAC/28VDC
- Contact resistance: 100mΩ max.
- Break before make
- 1/16" maximum panel thickness
- Operating temp.: -40°C to +85°C
- Switches snap together
- Front snap-tab mounting

See Pages 37 - 41 for Additional Switches

DIP Switch

- 12-Position
- Switch contacts: SPST
- Pre-tinned leads
- Easy activation
- 50VDC @ 100mA

$1.09
38800



Metric Hobby 26-Piece Tool Set

$11.95
99629

More Tool Kits See Pages 110 - 112



- 6 screwdrivers: Phillips #0, #1, slotted 0.05",0.08", 0.09", 0.12"
- 10 bits: 5mm, 6mm, #No.1, #No.2, No.1, No.2, T-10, T-15, T-20, socket adapter
- Plastic carrying case
- Extension bar
- Handle
- Stainless steel tweezers
- Sockets: 5, 6, 8, 10mm
- 4" long nose pliers
- 4" side cutter

10-Piece SAE Hex Key Wrench Set



See Pages 105 - 111 for Our Selection of Tools

$3.25
72477

Includes:
1/16, 5/64, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4, 5/16 and 3/8" wrenches

Part Number Color Code Legend
NEW | SALE | REFURBISHED | CLOSEOUT

Digital Lab



Labs and Accessories on Page 97

$279.95
75838

Solderless Breadboard
- 1580 interconnected nickel-plated tie points, fitting all DIP sizes and all components with AWG #22-30 (0.3-0.8mm) solid leads.

DC Power Supplies
- ±5VDC fixed; ±15VDC variable
- DC power supplies equipped with short circuit protection

Two 7-Segment Displays
- Digit height: 0.3"

Function Generator (5 ranges)
- Frequency ranges: 1Hz to 100kHz
- Sine wave output: 0–8 Vp-p variable
- Triangle wave output: 6Vp-p fixed
- Square wave output: ±5V fixed

International 115/220VAC Switchable

Digital Voltmeter (DVM) 4 ranges
- 3½-digits LED display
- Digit height: 0.3"
- Ranges: 199.9mV to 199.9V full scale
- Input AC voltage: 115VAC/220VAC @ 50/60Hz – switchable

POW6T Power Manager

Power Management Products on Pages 159 - 161



$134.95
191804

- Number of receptacles: 6
- Peak current normal mode: 13kAmps
- Peak current common mode: 26kAmps
- Surge energy rating: 480 joules
- Nominal input voltage: 120VAC@50/60Hz (auto sensing)
- Receptacle style: NEMA5-15R
- Input connector type: NEMA5-15P
- UL1449 TVSS rating: 330V
- Lifetime warranty w/ $25,000 lifetime equipment protection policy

Serial Cable Surge Suppressor



$2.19
72371

See Page 159 for More Surge Suppressors

Protects your sensitive RS-232 line drivers/receivers against damaging power surges.

Cat 5 Crossover Cable

Modular Accessories on Page 152



- Connect 2 PCs w/o a hub
- 24AWG (7 x 43) stranded
- Straight through wiring
- Strain relief RJ45 connectors
- 10' • UTP • 4-pair • 8P8C

$6.95
169261

3-Button Serial Mouse



$4.49
104441

Computer Input Devices See page 156

- Microsoft® mouse compatible
- IBM PC/XT and higher compatibles

3½-Digit Pocket Multimeter

$17.95
119212

See Page 119 - 123 for More Handheld Equipment



- Measures AC/DC voltage, DC current, h_{FE} and resistance
- 0.5" digit height
- AC voltage: 200V, 750V
- DC current: 200µA, 2mA, 20mA, 200mA, 10A
- DC voltage: 200mV, 2V, 20V, 200V, 1000V
- Resistance: 200Ω, 2kΩ, 20kΩ, 200kΩ, 2MΩ
- Diode and continuity test
- Removable test leads

IDE Hard Drive Cable

$2.95
72805



- Length: 18"
- For two IDE devices

IEEE-488 Cables

See Pages 148 - 150 for More Computer Cables

$28.95
73154



- 1 meter
- Gray

A variety of cable lengths are offered to ensure that the IEEE system requirements are met (20 meters maximum length with a maximum of 15 devices). These cables are standard IEEE-488 cables with stackable 24-pin GPIB connectors on both ends.

ISA 16-Bit Super VGA Card

$49.95
104660

More PC Cards on Pages 138 - 141



- 512k on board RAM
- 1024 x 768 resolution in non-interlaced and interlaced modes
- Supports 16 colors; requires 1MB video RAM
- Supports VESA standard graphics and text modes
- Output HDDB15 female (analog)
- Emulates VGA, EGA, CGA, MDA and Hercules modes

Temperature Controlled Soldering Station

XYTRONIC

For More Soldering Stations See Pages 113 - 114



$89.95
168719

ESD Safe Station

- Temperature controlled hand soldering
- High insulation/long life ceramic heating element
- Accurate heat sensing and compensation
- Thermal control adjustable from 150˚C to 450˚C (300˚F to 850˚F) and maintained within ±3˚C (±6˚F)
- ESD safe and spike free circuitry
- Temperature lock to prevent unwanted adjustments
- External calibration port
- Size: 7.7"L x 5.3"W x 3.8"H

Includes: Manual and Allen wrench

Motherboard Blowout!

Pentium® II/Celeron 233MHz-333MHz

Reduced Prices Up to 60%. See Pages 136 - 137

82443EX Chipset



- Award BIOS
- Slot 1 type for Pentium® II and Celeron processors
- Two 168-pin DIMM socket upgradeable to 256MB (SDRAM)
- Two PCI and 2 ISA with one shared PCI/ISA socket

$39.95
185359

- On-board: 2 IDE ports that support 4 IDE devices, floppy disk port, AGP port with ESS sound onboard
- PS/2 female keyboard and mouse; 2 USB ports; 2 DB9 male serial ports; DB25 female parallel port; DB15-pin female game port; 3 audio I/O jacks • 20-pin ATX form factor

Includes: Manual, cables, retaining clip for Pentium® II processors and CD-ROM driver

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BNC Jacks

- Removable jacks used in wall plates
- Clip on for easy installation



$4.95
195611

For Complete Details See Page 152

$4.95
195653

RJ45 Modular Jacks



Punchdown Type

- Removable jacks used in wall plates (clip on)
- CAT 5E classification

200-Watt Single-Output Switching Power Supply

See Pages 76 - 78 for an Extensive Line of Mean Well Power Supplies

- Output 12VDC @ 16.7A
- Input voltage: 85-264VAC @ 47-63Hz or 120-370VDC
- Line regulation: ±5%
- DC voltage adjustment: CH1: +10%, -5%

With PFC – Power Factor Correction

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Digital-Analog Lab



Solderless Breadboard

- 2,712 interconnected nickel-plated tie points, fitting all DIP sizes and all components with AWG #22-30 (0.3-0.8mm) solid leads

DC Power Supplies

- Variable DC output: 0 to +15V and 0 to -15V @ 500mA
- Fixed DC output: +5VDC, 1A; -5VDC, 300mA
- Input power: 120/220VAC @ 50/60Hz (switchable)

Function Generator

- Frequency ranges: 1Hz–10Hz, 10Hz–100Hz, 100Hz–1kHz, 1kHz–10kHz, 10kHz–100kHz
- Sine wave output: 0–8 Vpp variable
- Triangle wave output: 0–6 Vpp variable
- Square wave output: 0–8 Vpp variable

$359.95
136266

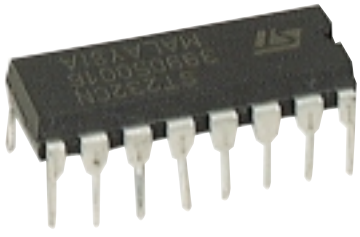
See pages 96 - 98 for More Prototyping Equipment

+5 VDC RS-232 Driver/Receiver

Implement RS-232C communications, even when ±12VDC is not available. Especially useful for battery powered systems.

- EIA/TIA-232E and V.28/V.24 compatible
- 2 drivers and 2 receivers
- Max data rate: 120kbps
- Power supply: +5VDC

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